NAVAL POSTGRADUATE SCHOOL Monterey, California



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THESIS

REENGINEERING THE UNITED STATES MARINE CORPS' RECRUIT DISTRIBUTION MODEL (RDM)

by

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September 1998

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The United States Marine Corps accomplishes its mission "to put the right Marine in the right place at the right time with the right skills and quality of life" in a variety of ways. One of the information systems assisting the Marine Enlisted Assignments branch is the Recruit Distribution Model (RDM). This thesis proposes changes to the RDM user interface, data management, assignment model, and analysis capability. With the use of business process reengineering, process modeling, mathematical modeling, and database design a fully functional prototype has been developed to address each identified change proposal. This reengineered system includes numerous innovations such as an intuitive navigational scheme using switchboards, and the elimination of manual data entry for data already available in the system. It also provides a number of significant contributions beneficial to the USMC. For instance, the reengineered system allows the user to objectively analyze different results by comparing four different objective measures, and its mathematical model uses commercial-off-the-shelf products eliminating a proprietary solver. All these changes will empower managers to effectively and efficiently manage the assignment of recruits in order to meet the challenges of the 21st century.

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REENGINEERING THE UNITED STATES MARINE CORPS' RECRUIT DISTRIBUTION MODEL (RDM)

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Submitted in partial fulfillment of the requirements for the degree of

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ABSTRACT

The United States Marine Corps accomplishes its mission "to put the right Marine in the right place at the right time with the right skills and quality of life" in a variety of ways. One of the information systems assisting the Marine Enlisted Assignments branch is the Recruit Distribution Model (RDM). This thesis proposes changes to the RDM user interface, data management, assignment model, and analysis capability. With the use of business process reengineering, process modeling, mathematical modeling, and database design a fully functional prototype has been developed to address each identified change proposal. This reengineered system includes numerous innovations such as an intuitive navigational scheme using switchboards, and the elimination of manual data entry for data already available in the system. It also provides a number of significant contributions beneficial to the USMC. For instance, the reengineered system allows the user to objectively analyze different results by comparing four different objective measures, and its mathematical model uses commercial-off-the-shelf products eliminating a proprietary solver. All these changes will empower managers to effectively and efficiently manage the assignment of recruits in order to meet the challenges of the 21st century.

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I. INTRODUCTION

A. THESIS PURPOSE

The main purpose of this thesis was to reengineer a United States Marine Corps' Manpower Assignment model concerned with the distribution of recruits to schools. This model is called the Recruit Distribution Model (RDM) [Ref. 1]. Throughout this thesis, the RDM is addressed as either RDM or the old system.

Additionally, an important purpose of this thesis was to build a functional prototype of the reengineered RDM. The new system is called the Recruit Distribution Decision Support System (RDdss). It demonstrates the functionality of the reengineered RDM. Throughout this thesis, the RDdss is addressed as either RDdss or the new system.

The majority of this thesis is devoted to a discussion of the RDdss. As necessary, the RDM is discussed. The following section is a general discussion designed to set the stage for understanding the rest of the thesis. It provides a problem description of recruit distribution in the United States Marine Corps (USMC). The last section of this chapter discusses the significant contributions of this thesis.

B. GENERAL PROBLEM DESCRIPTION

Recruit distribution in the USMC is the process that assigns recruits to an entry level school (ELS) leading to a military occupational specialty (See Figure 1). These assignments are made about 48 times a year, during the last week of Marine Corps Recruit Depot (MCRD) training. In this ending period of the MCRD, the recruits are facing the "Crucible," which is the final wicket a recruit endures before officially becoming a Marine. Consequently, the use of the titles recruit and Marine are used interchangably in this paper.

For at least two reasons, this assignment process is a critical manpower function. First, a Marine's military occupational specialty (MOS) ultimately determines

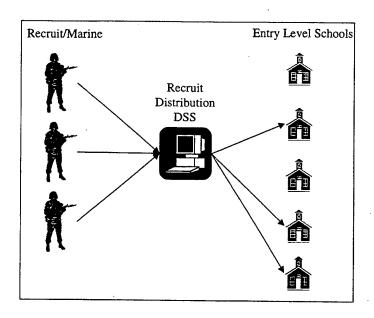


Figure 1. Assigning Marines to Schools

the member's career. Therefore, it is in the best interest of both the Marine and the USMC that a school assignment matching the Marine's desire is made. Second, the success obtained by a service member during his or her time in the USMC is partially based upon successful completion of their ELS, where a pattern of success is established. Therefore, a school assignment maximizing the chances of the Marine completing their training is important. So, fulfilling the Marine's desire and matching him or her to an MOS (i.e. ELS) that fits their personal characteristics is critical to the overall health of the USMC, making the assignment process a critical manpower function [Ref. 2].

Fulfilling the desire of the Marine is accomplished through the use of a contract guarantee. This is called a program enlisted for (PEF), and is specified during the recruiting process. For instance, a PEF = 19 is the "Tank and Assault Amphibian Option." There are currently two ELS's associated with this, "M1A1 Tank Crewman" and "Assault Amphibian Crewman." So, a Marine who chose the PEF = 19 is a possible candidate for these two schools and no others.

Once the Marine's school options are known, a Marine-to-school fit is deter-

mined for each of these schools (See Chapter III, Section B for details). This fitness determination is partly made by looking at each ELS's minimum eligibility requirements, which are call mandatory properties. This term "property" is used as defined by Webster's Ninth New Collegiate Dictionary: "a quality or trait belonging and especially peculiar to an individual or thing." Examples are Age > 18, Clerical >= 80, and Electrical >= 95. The meaning of the first example is obvious. The other two are based on test scores from the Armed Services Vocational Aptitude Battery (ASVAB) test.

In addition to the mandatory properties, most schools also specify desirable properties. A desired property is the same as a mandatory property, except they are not prerequisites for attending the school. For example, the Traffic Management Coordination school desires Marines with a Clerical score of at least 100. So, a desired property of Clerical >= 100 is specified for this ELS.

By using the information obtained from the PEF, mandatory and desired properties, a fitness matrix is generated. This shows the fit of every Marine to every school he or she is eligible for. Since there are about 100 schools and on average 700 Marines considered for every run, this matrix has the potential of 70,000 matches.

However, the matrix size is actually bigger. This is because each of the schools is broken down by classes. Some ELS's have a class starting each week, others every month, and others every quarter. Over a given year, these classes total about 1,800. Following the practice of the USMC, only the classes over the next 3-4 months are considered during the assignment process (see Figure 2). Therefore, the fitness matrix is increased to a potential size of 350,000.

The fact that the school classes start at different times throughout the year and that the assignment process is only conducted 48 times a year (normally this occurs on friday) causes the "3-month look ahead" in the model and has implications important to the USMC. The concern is school seats which never get filled. Each seat is prepaid, guaranteeing its availability to the USMC. This means every vacant

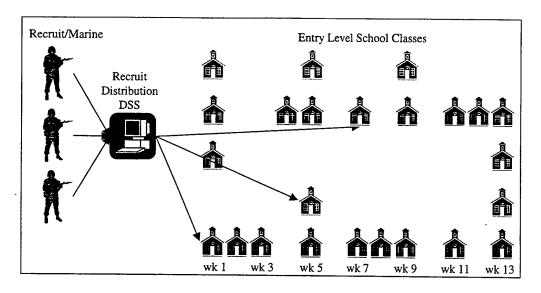


Figure 2. Assigning Marines to School Classes

spot is potentially a lost resource to the USMC. Therefore, in addition to the Marine-to-school fitness concern, there is also the concern of filling all available school seats before their report date is passed.

Another concern is the problem of unassigned Marines. There are numerous reasons why they may not get assigned. Maybe the only school class the Marine was eligible for is already full. Or, possibly he or she is not qualified for any of the school's promised by their PEF. A third possibility is errors in the data provided to the assignment process. Regardless of the cause, it requires identification and corrective action.

Finally, a discussion of the internal and external stakeholders associated with the USMC recruit distribution is given. Internally, there are the USMC and the recruits. Since their concerns were discussed above, they are not given any further consideration. Externally, there is the contractor Decision Support Associates, Inc. (DSAI) who has maintained and upgraded the RDM for over 30 years. They also maintain about eight other major systems for the USMC. For their services, the USMC pays a significant amount of money each year. Additionally, DSAI has proprietary software in some of these systems, which has locked-in the USMC to this

company. Besides the contractor, there is one last significant stakeholder, the American taxpayer. In a time of increasing fiscal constraints and shrinking budgets, it is imperative that wise decisions are made in regards to assigning Marines to ELS's. The American taxpayers expect nothing less.

C. SIGNIFICANT CONTRIBUTIONS

Four significant contributions beneficial to the USMC have been made in this thesis. A detailed discussion of these is given throughout the next three chapters. Here, we list and summarize the contibutions.

- Analysis and articulation of the recruit distribution process by interviewing USMC and DSAI personnel, reviewing available documentation, and operating the RDM we were able to articulate an understanding of the recruit distribution process using IDEF process modeling. Additional data modeling was articulated in a third normal form relational schema [Ref. 3].
- Development of a mathematical model by analyzing the assignment process, criteria, and constraints, USMC policies and objectives, a mathematical model for the new system was developed.
- Fully functional prototype an intuitive and easy to understand new system that seamlessly interfaces with the old system was built. It provides an objective means of comparing assignment results of both systems, and was developed using commercial-off-the-shelf (COTS) software applications.
- Elimination of the proprietary solver and associated contractor lock-in this was accomplished by replacing the proprietary solver with two COTS applications.

II. REENGINEERING MOTIVATIONS AND PROCESS VIEW

The RDM has a number of limitations which motivated the USMC to reengineer it. We start this chapter by listing and describing each identified limitation. Then, to develop a better understanding of recruit distribution in the USMC, two different process views are examined. The first is concerned with the RDM operating environment, and the second is concerned with the first level of the RDdss IDEF0 model.

A. LIMITATIONS OF OLD SYSTEM

Throughout this reengineering effort, a number of limitations of the old system have become apparent. Many of these limits were recognized earlier, and were part of the USMC's motivation to reengineer the RDM. The following is a list of the identified limitations of the old system.

- Navigation
- Data management
- Assignment procedure
- Transaction processing approach

A description of each limitation is now given.

1. Navigation

Navigating through the RDM is not intuitive. It is neither obvious where one should start or where one should go. Navigation is accomplished by initially selecting an option from one of the main display's drop down menus. This normally results in a window appearing on the computer's desktop. Then, by pointing and clicking on the displayed window's buttons, further navigation is accomplished. After working with the RDM for a number of hours, we were able to navigate through the application

to find and display specific windows. However, after a week or two of not using the system, we had difficulty finding our way around again. In the RDdss, we have created an intuitive navigational scheme using switchboards.

2. Data Management

Data management in the RDM is poor, leading to the introduction of numerous errors. The biggest problem in this regard deals with data entry. The RDM violates the basic rule of never requiring the user to enter data already in the system [Ref. 4]. For example, creating a new school in the RDM requires the user to type data into seven different data fields. Only the course identification number has been automated by a drop down list. In the RDdss, when creating a new school we have reduced the manual data entry to one field.

3. Assignment Procedure

There are at least five limitations associated with the old system's assignment procedure. It

- is encoded into proprietary software,
- $\bullet\,$ examines schools sequentially, rather than globally,
- makes assignments based on school priority rather than weights,
- attempts to maximize fill rather than fit-and-fill, and
- is relatively inflexible.

The solver performing these assignments was designed back in the 1950's, where the major concern was speed and using the minimal amount of memory. It is written in Fortran, and is proprietary code owned by DSAI. It does not search repetitively for an optimal solution by trying to maximize or minimize an objective function. Instead, it maximizes the fill of prioritized school seats. In the RDdss, we use a well know algorithm called CPlex [Ref. 5]. After conducting around 600 iterations of comparing 344 Marines to 576 school classes, it produces an *optimal* solution. Its

objective function was written to make the assignment procedure flexible. It allows the RDdss manager to "game" the system by making fit-and-fill trade-offs, until a "good" solution is found.

4. Transaction Processing Approach

Finally, the old system follows a transaction processing approach, vice a decision support approach [Ref. 6]. This is partially due to the inflexibility of the solver. However, another contributor is the extreme difficulty in comparing one run to another. Other than providing a means for manually computing the numerical difference in Marines assigned, the RDM provides little insight or information views for comparing runs. This is because there is no way to objectively compare one run to another. As it is now, if the RDM manager launches the assignment model and everybody is assigned, the result becomes the approved assignments. In the RDdss, we have created an entire process devoted to providing insightful analysis of a given run (See Chapter IV, Section D for details). Its purpose is to support the making of wise assignment decisions.

B. A PROCESS VIEW

To develop a better understanding of recruit distribution in the USMC, two different process views are now examined. The first is concerned with the current operating environment of the old system. The goal is to develop a big picture view of this process. For those interested in further study of the old system, Appendix A contains the RDM business process IDEF0 model.

The second process view examined concerns the first level of the RDdss business process IDEF0 model. The goal is to develop a better understanding of the new system, without going into great detail. This lays a good foundation for the RDdss discussions in the remainder of this thesis. Appendix B contains the entire IDEF0 model of the new system.

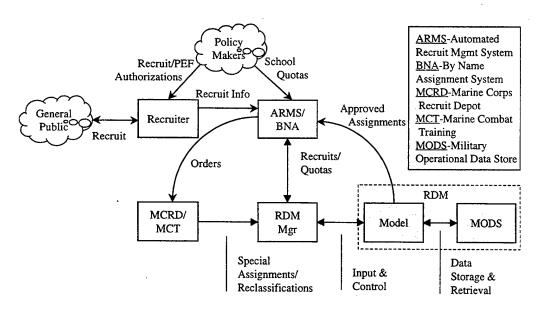


Figure 3. Current Recruit Distribution Operating Environment

1. Recruit Distribution Model Operating Environment

Figure 3 graphically depicts the operating environment of the USMC recruit distribution. At the top are the policy makers, who forecast and decide how many recruits and corresponding school seats are needed over the next few years. In addition to this, they determine how many PEF's or school guarantees to make available for a given year. Currently, about 65-70% of the recruits enter the USMC with a quarantee. The recruit and PEF authorizations for the following year are given to the USMC recruiters, and the school seats or quotas determined for the following years is input into the By Name Assignment (BNA) system.

The recruiters use the recruit and PEF authorizations in recruiting from the general public. Once a potential candidate is found they take the ASVAB, if they have not already done so. Based on the results, the recruiter can offer different quarantees. Once the candidate signs a contract with the USMC, their test scores, PEF, and other personal information such as age and height are entered into the Automated Recruit Management System (ARMS).

Both the ARMS and BNA systems utilize large main frame databases. They

serve as central repositories for maintaining data on many aspects dealing with the USMC. Keeping this information stored in one location ensures everyone is using the same data, providing consistency for all users. One user is the RDM manager, who retrieves recruit and school information from these systems for use in the RDM.

Additionally, the RDM receives data from two other sources. The MCRD instructors provide special assignment inputs. These are personnel identified as having the talents or abilities well suited for a particular school. The other data comes from the MCT. They provide the RDM manager with reclassification information. For instance, a Marine is reclassified if he or she is injured during MCT and is unable to make the start date of their assigned ELS.

All this recruit and school data is input into the RDM, where it is stored in the Military Operational Data Store (MODS). The model is then run. Once a satisfactory set of assignments is obtained, the RDM manager uploads the approved assignments to the ARMS and BNA systems. From this assignment information, the MCRD generates orders for the Marines graduating from the MCRD.

2. New System Level 0 Diagram

Focus is now shifted to the examination of the first process level of the RDdss. Looking any deeper will provide more detail than is necessary at this point. As mentioned earlier, the intent is to lay the foundation for the RDdss discussions in the remainder of this thesis.

Figure 4 shows the level 0, or context diagram of the RDdss. The program used to generate this illustration was BPWin, which is based on IDEF0 modeling. Consequently, all arrows entering from the left are considered "inputs," arrows entering from the top are "controls," arrows exiting to the right are "outputs," and arrows entering from the bottom are "mechanisms." A convenient acronym for this is ICOM [Ref. 7].

- I = Input: something consumed in the process
- C = Control: a constraint on the operation of the process

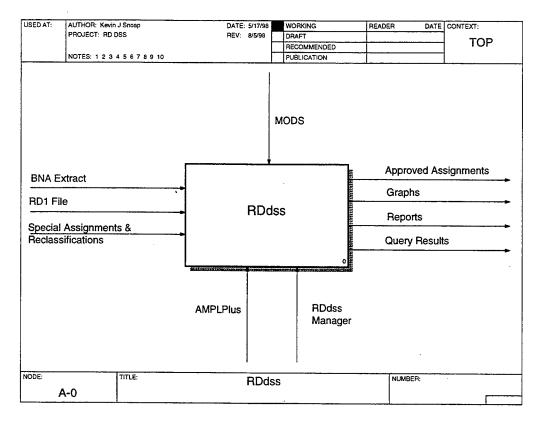


Figure 4. RDdss Process, Level 0 Diagram

- O = Output: something resulting from the process
- M = Mechanism: something used to perform the process, but is not itself consumed

There are three inputs to the RDdss, the BNA extract, the RD1 file, and the special assignments/reclassifications. The first of these contains a set of school class quotas covering a 120 day period. This comes to the RDdss manager as a fixed-width delimited text file. The RD1 file contains the data for the recruits soon to graduate from the MCRD. It also is a fixed-width delimited text file. The special assignments and reclassifications are the recruits identified with special abilities or talents and the Marines requiring reassignment to a different school class, respectively. This last data comes to the RDdss manager as a memo and not a text file.

The only control is the database (or Military Operational Data Store) used to store the data for the RDdss. Among other things, the MODS contains the informa-

tion specifying the eligibility requirements for each of the schools. This is why it is considered a control. It contains the data controlling or constraining the assignment of Marines to schools.

Besides the approved assignments that were mentioned earlier, the output consists of graphs, reports, and query results. Each graph was designed to provide insight into the current assignment result, plus provide a means for comparing different runs. The reports provide a print-out of information the RDdss manager might find useful. For instance, an approved assignment report and an unassigned Marine report are both available. The query results provide different views of the data in the MODS. For instance, one of the queries provides a listing of the fitness scores of all schools a Marine is eligible for.

Finally, the two mechanisms of the RDdss are the RDdss manager and the commercial-off-the-shelf (COTS) application AMPLPlus. Both of these entites are necessary to make the system work, and are not consumed by the process itself. This is why they are considered mechanisms. The RDdss manager is the one who points and clicks on the buttons of the RDdss, making it operate. AMPLPlus is the application containing the mathematical model used in making optimal Marine-to-school assignments. It interfaces with the CPlex algorithm that actually performs the optimization.

III. MODELING THE RECRUIT DISTRIBUTION PROBLEM

We model the recruit distribution problem as an assignment problem. Various submodels are developed to compute input paramters and perform other preprocessing steps for the assignment model, which optimally assigns recruits to a school class. Following is a discussion of important points concerning the recruit distribution problem.

- 1. Schools and Classes: there are about 130 schools per fiscal year, which are broken down by classes (about 1800 classes per fiscal year). Classes of the same school, commencing on different dates, are identical. However, a class commencing soon after a recruit is available for training has greater utility than another class starting at a later date. On average, there are 600 classes in a run.
- 2. Program Enlisted For (PEF)
 - (a) 65-70% of enlistees enter the USMC under a guarantee (or PEF). The remaining recruits enter under an open contract (PEF=00).
 - (b) A recruit can be assigned only to schools associated with his or her PEF. Some PEF's are associated with one school, while others are associated with many schools.

A. OPTIMIZATION OBJECTIVES: FIT AND FILL

Our approach in the assignment model is to optimize by looking at both fit and fill. The importance of both these objectives was discussed in Chapter II, Section B. The idea is to allow the RDdss manager to make a tradeoff between fit and fill.

The high-level objective function is:

Maximize

$$K_1 \cdot Fitness - K_2 \cdot Penalty$$

Where K_1 is the fitness coefficient and K_2 is the fill coefficient.

By assigning different values to these coefficients, the RDdss manager is able to make trade-offs between fit and fill. This capability makes the assignment model flexible. It provides the RDdss manager a means for "gaming" the system.

B. MEASURING FITNESS

The first half of the high-level objective function deals with maximizing the fitness of Marines to schools. Therefore, we cover this topic now. Following is a discussion of important points concerning the measuring of fitness.

- 1. Marines are only eligible for assignment to schools corresponding to their PEF guarantees.
- 2. Associated with each school are specific mandatory properties, or minimum eligibility requirments (e.g. AGE > 18).
- 3. Eligibilty of a Marine to a school is pre-determined by comparing a Marine's attributes (e.g. Age = 20) to the school's mandatory properties. A Marine is eligible only if he or she meets all the minimum school requirements.
- 4. Many schools also have desirable properties associated with them. This is a property which is desired in a Marine (e.g. Height > 65 inches), but are not prerequisties for attending the school. Since some desirable properties are more desirable than others, a means of distinquishing the properties is necessary. We have followed the Marine Corps practice of using 6 levels of desirability. Level 1 properties are the most desired, followed by level 2, etc.
- 5. Let $\mathcal{P}(s)$ denote the set of desirable properties for school s, and let level(p) denote the desirability level of property p. Let $possesses_{(m,p)} = 1$ if Marine m possesses property p (0 otherwise). Further, let $Score_{level(p)}$ (> 0) be the score assigned for possessing a level(p) property, where $Score_{level(p)}$ is calculated using an exponential function inversely proportional to level(p). The scores for levels 1 through 6 are shown in Figure 5.
- 6. The total fitness score $(fit_{m,s})$ of Marine m to school s is composed of two parts: the score $(ManScore_{m,s})$ for possessing mandatory properties, and the score $(DesScore_{m,s})$ for possessing some or all of the desirable properties.
 - Our procedure for computing fitness scores is designed in a manner that, for each school, the average fitness score—with the average computed over all qualified Marines, i.e. Marines who have met the mandatory properties—is constant (i.e. 100). The reason we did this was to ensure each school

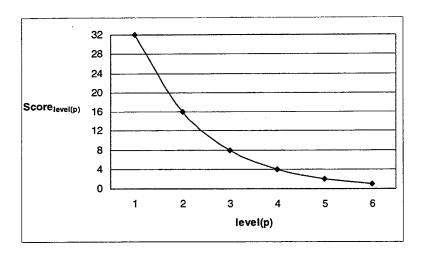


Figure 5. Exponential Function for Calculating $Score_{level(p)}$

received equal treatment in the model, regardless of the number of desirable properties specified for each school. Otherwise, all other things being equal, the school with the greatest number of desirable properties would receive the most assignments.

- 7. For each school s, percentage weights $ManWt_s$ and $DesWt_s$ are assigned, respectively, for the mandatory and desirable properties. For example, for school s_1 , a weight of 70% may be assigned to the mandatory properties and 30% for the desirable properties.
- 8. A Marine possessing all mandatory properties for school s is given an initial score $ManScore_{m,s} = ManWt_s \cdot 100$. Marines who do not possess all mandatory properties for a school are given an overall fitness score of 0 for that school.
- 9. Of all the Marines possessing the mandatory properties, those possessing desirable properties are awarded additional points, which are weighted by the level of the property. The Marine's score for desirable properties is computed as follows:
 - The absolute score $Abs_{m,s}$, for Marine m and school s, based on desirable properties is

$$Abs_{m,s} = \sum_{p \in \mathcal{P}(s)} Score_{level(p)} \cdot possesses(m, p)$$

The average of these absolute scores is computed over all qualified Marines. Let $AveAbs_s$ denote the average absolute score for school s.

• Each Marine's fitness score for desirable properties is then computed as a fraction of this average, and normalized by multiplying with the percentage weight for desirable properties. That is, $DesScore_{m,s}$ is a weighted relative score:

$$DesScore_{m,s} = (\frac{Abs_{m,s}}{AveAbs_s}) \cdot DesWt_s \cdot 100$$

The overall average of all these scores is, due to the above construction, $DesWt_s \cdot 100$.

- 10. The final fitness score, $fit_{m,s}$ is simply the sum $ManScore_{m,s} + DesScore_{m,s}$. It may be seen that, for each school, this number averages (over all the qualified Marines for that school) to 100.
- 11. As mentioned earlier, schools are broken down by classes that are identical, except for their start dates. Therefore, let $fit_{m,s} = fit_{m,c}$ for each class c of school s.

C. MEASURING FILL

The second half of the objective function deals with maximizing the fill of school seats. We now turn our attention to this topic.

As we discussed in Chapter II, school seats are paid for in advance. This is to guarantee the seat is available to the USMC. Consequently, every vacant spot is potentially a lost resource. Since the model is run about once every week, the biggest concern is the unfilled seats having report dates within the next seven days. Conversely, a seat having a report date in three months is not so critical.

To capture the essence of filling school seats with early report dates, we use a penalty function. The idea is simple. School seats having an early report date get a high penalty, and those having a late report date get a low penalty. A number of functions would have worked for this. We have graphed two candidates in Figure 6. The first is a linear function and the second a large-step function. Each of these was tried in the prototype. In our opinion the latter one is the best choice. It gives a lot of emphasis to the first week, plus it treats all schools having report dates within the same week equally. It is the function currently implemented in the rddss.

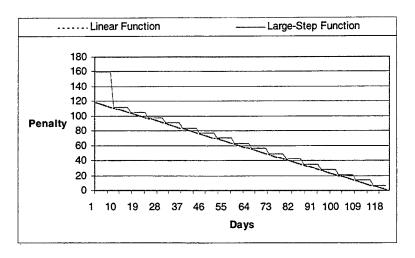


Figure 6. Two Candidate Penalty Functions

D. ASSIGNMENT MODEL

We are now ready to formally describe the assignment model. We will first specify the model's assumptions. Then, we will list the model's notation, followed by its objective function and constraints.

1. Assumptions

- 1. Each school is unique and identifies a single course of instruction leading to an MOS.
- 2. In any given run, a school may offer several classes that start on different dates. It is more desirable to fill seats in classes starting earlier. Such classes have a higher penalty per unit shortfall than similar classes starting at a later date.
- 3. All Marines available for assignment are graduating from the MCRD on the same date.
- 4. A Marine's eligibility for a school, as well as the fit for each school, is determined by the model preprocessor, taking into account the PEF guarantees, and the mandatory and desirable properties.
- 5. A Marine is assigned to a school corresponding to their PEF code, or not at all.
- 6. It is better to leave a Marine unassigned than to overfill a school.

7. The demand for the number of Marines to be trained in each school class is determined by looking at the BNA extract. This demand statement is already constrained by the capacity constraint at each school.

2. Notation

• Sets

 \mathcal{M} : Marines

C: Classes

• Exogenous Variables (Parameters in AMPL)

 $fit_{m,c}$: the desirability of assigning Marine m to class c (note: the fitness score is zero for Marine-class pairs where either the Marine does not meet the classes mandatory properties, or where the class does not fulfill the Marine's PEF guarantee.)

demand_c: demand for Marines to be trained at class c

penalty_c: penalty for each unit of demand not met (higher value means it is more critical to fill the class)

• Decision Variables

 $x_{m,c}$ (binary integer): 1, if Marine is assigned to the given class; 0 otherwise

3. Objective

Maximize the Total Utility: (Total Reward - Total Penalty)

$$TU = k_1 \left(\sum_{c \in \mathcal{C}} \sum_{m \in \mathcal{M}} fit_{m,c} \cdot x_{m,c} \right) - k_2 \left(\sum_{c \in \mathcal{C}} penalty_c \cdot (demand_c - \sum_{m \in \mathcal{M}} x_{m,c}) \right)$$
(III.1)

4. Constraints

• assignmentLimit: a Marine is assignable to at most one school

$$\sum_{c \in \mathcal{C}} x_{m,c} \le 1 \qquad \forall m \tag{III.2}$$

• eligibility: a Marine is only assignable to a class they are fit for (this prevents assigning Marines with a fitness score of zero)

$$x_{m,c} \le fit_{m,c} \quad \forall m \ \forall c$$
 (III.3)

• capacity: since penalties apply only if there is a positive shortfall, the objective function would be non-linear. To avoid that, we assume we will never oversupply Marines to schools, resulting in:

$$\sum_{m \in \mathcal{M}} x_{m,c} \le demand_c \qquad \forall c \tag{III.4}$$

IV. A DECISION SUPPORT SYSTEM FOR RECRUIT DISTRIBUTION

A. ARCHITECTURE AND IMPLEMENTATION

Following is a discussion of the RDdss architecture and its implementation. First, the architectural components are discussed. Then, the steps taken to build the RDdss are described.

1. Architecture

The architecture of the RDdss is depicted in Figure 7. This illustration shows how the six major components of the system are related. We will describe this architecture by examining each component in the following order: switchboard, relational database, preprocessor, assignment model, solver, and analyzer.

The switchboard is one of two components providing an interface between the user and the RDdss. It is the mechanism by which the user controls the operation of the system. Figure 8 illustrates the main switchboard of the RDdss. It is displayed

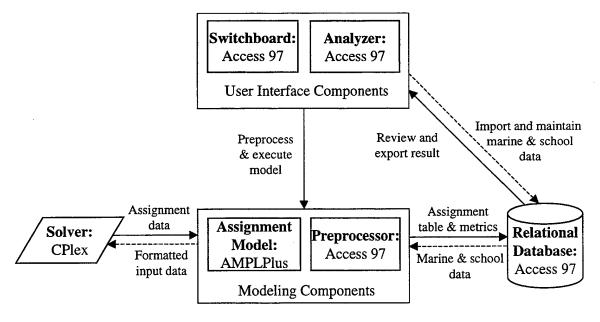


Figure 7. RDdss Architecture

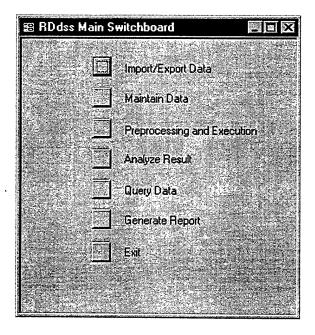


Figure 8: RDdss Main Switchboard

when the application is started. As this illustration depicts, the user can perform the following functions by simply pointing and clicking on the appropriate button: import and export data, maintain data, preprocessing and execution of the assignment model, analyze results, query data, and generate reports. All the RDdss switchboards were generated using Access 97.

The relational database technology was used in the RDdss [Ref. 8]. The actual table relationships are shown in Figure 9. These tables were developed in Access 97, which uses the relational technology. In addition to a few flat files used to communicate with the assignment model, all the data for the RDdss is stored in this database.

The preprocessor is one of the two modeling components. It consists of Access 97 Visual Basic for Applications (VBA) code that computes information necessary for the assignment model [Ref. 9]. It determines the demand of each class, the appropriate penalty associated with each class, and the Marine-to-class fitness matrix. The code for these assignment model inputs is found in Appendix D, lines 452-516 and 4305-4812.

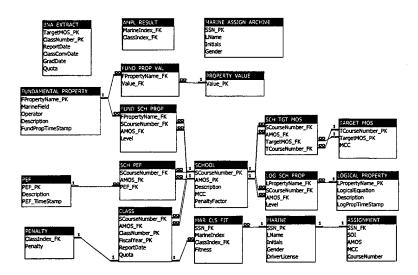


Figure 9. RDdss Relational Schema

The assignment model is the other component of the modeling components. It has been modeled in AMPL [Ref. 10], a language and a computing environment for expressing, solving, and analyzing mathematical programming problems (minimizing or maximizing a function of decision variables, subject to constraints on the variables). A complete discussion of the assignment model's math model is available in Chapter III, Section D.

The next component is the solver. It communicates directly with AMPL, the modeling language of AMPLPlus. As mentioned in Chapter II, it uses an algorithm called CPlex, which is an optimization package for linear, network and integer programming. Working in conjunction with AMPLPlus, the solver finds an optimal solution.

The final component is the analyzer. It is the other component making up the user interface. This is where the RDdss manager analyzes assignment results, seeking insights for developing a "good" solution. Insight is developed mostly by the graphs and numerical information available in the analyzer. These were generated in Access 97 using its report generator and VBA code. The programming used in the analyzer is shown in Appendix D and includes lines 1-310, 2156-2214, and 3756-3827.

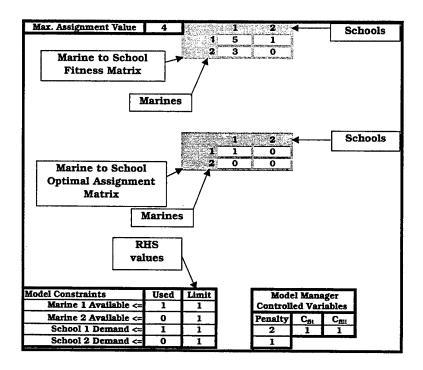


Figure 10. RDdss Demonstration Solver

2. Implementation

Building the RDdss was an iterative process. Some steps took numerous iterations, and some were straightforward. Below is a listing of the 14 major steps it took to build the RDdss.

- 1. Analyzing the current system was the first step. This included 1) interviewing USMC and DSAI personnel, 2) reviewing available documentation, and 3) operating the RDM.
- 2. After gathering the current system data, it was necessary to develop a logical understanding of the system. This was accomplished by modeling it with BPWin. Appendix B is the result of this step.
- 3. With this system understanding, it was possible to envision how the new system would make assignments. Using standard optimization techniques [Ref. 11], a small-scale demonstration solver was built using Excel 97. It is shown in Figure 10.
- 4. Combining the system understanding and the data requirements for the demonstration solver, it was possible to envision a data structure for the reengineered system. This lead to the development of a third normal form relational schema for the RDdss [Ref. 3].

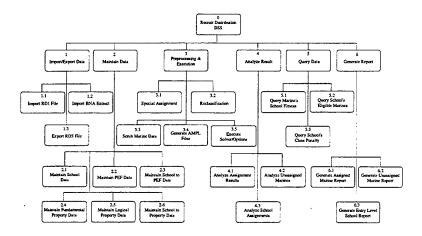


Figure 11. RDdss Decomposition Diagram

- 5. Using the relational schema as a model, the RDdss tables were built in Access 97. The results of this were seen earlier in Figure 9.
- 6. As the vision for the reengineered system came more into focus, an intuitive navigational scheme was conceived. This lead to the development of a decomposition diagram for the RDdss. It is demonstrated in Figure 11.
- 7. Using the decomposition diagram as a model, the user interface was built for the RDdss in Access 97. The Main Switchboard was seen earlier in Figure 8.
- 8. With the switchboards now in place, VBA coding was commenced [Ref. 9]. This made each switchboard functional and useful.
- 9. Building upon the concept of the demonstration solver from step 3, a formal mathematical assignment model for the RDdss was developed. This was introduced in Chapter III, Section D.
- 10. The COTS applications, AMPLPlus and CPlex were installed on the personal computer containing the RDdss.
- 11. With AMPLPlus now installed, it was possible to code the assignment model into the application. This made it possible to verify our design.
- 12. Manually creating input files for AMPLPlus is time consuming. So, the preprocessor was coded. This automated the generation of the class demand, class penalty, and Marine-to-class fitness matrix.
- 13. Further automation of the RDdss was accomplished by interfacing Access 97 and AMPLPlus. This required both VBA and AMPL coding. The end result was a seamless operation of the two applications.

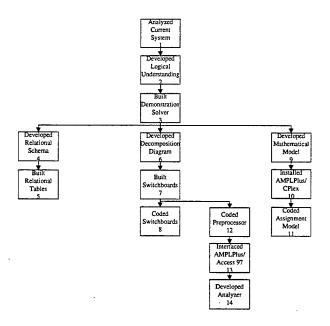


Figure 12. Actual RDdss Build Sequence

14. Finally, much thought was given to ways of gaining insight into the assignment results. This lead to the development of the analyzer, which was discussed briefly in the previous section.

Some of these steps were performed in parallel. The actual order followed in building the RDdss are depicted in Figure 12.

B. USING THE RECRUIT DISTRIBUTION DECISION SUPPORT SYSTEM

In this section, we will discuss using the RDdss. Three aspects are covered, 1) setting up a run, 2) model execution, and 3) customizing a run and results. Each is discussed in the order given here.

1. Setting up a Run

Setting up a run of the RDdss is straightforward and easy to do. Figure 13 graphically illustrates the steps involved. Starting with step 1 on the graph and working through to step 3d(iii), we will discuss a run set-up.

The RDdss manager starts at the top of the Main Switchboard. Here, he or

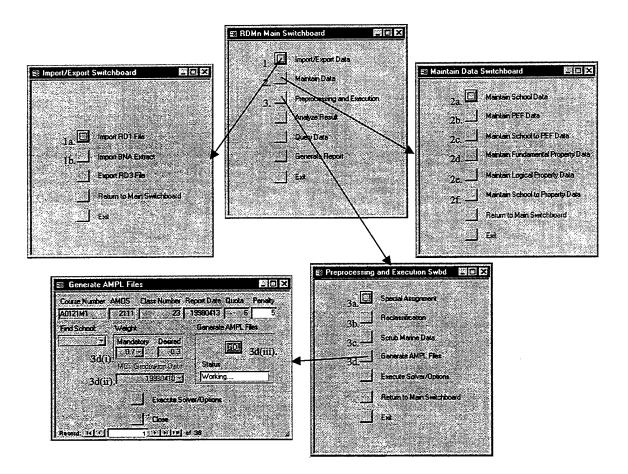


Figure 13. Setting up a Model Run

she clicks on the Import/Export Data button. This will cause the Main Switchboard to close and the Import/Export Switchboard to open. From this switchboard, the RDdss manager will import the RD1 file and the BNA extract into the RDdss MODS. This is easily accomplished by clicking on the corresponding buttons for importing these files. Finally, the RDdss manager will click on the "Return to Main Switchboard" button, causing the Import/Export Switchboard to close and the Main Switchboard to reopen.

The next step is data maintenance. This includes updating, editing, and/or deleting of school related information. The RDdss manager gets to the Maintain Data Switchboard by clicking on the appropriate button on the Main Switchboard.

From the Maintain Data Switchboard, the RDdss manager will start at the

top and work his or her way down to the bottom. The various buttons on this switchboard open forms where data maintenance is performed. For instance, the first button opens the Maintain School Data form, allowing the RDdss manager to create, edit, and/or delete a school. The other buttons allow similar operations with the PEFs, and fundamental and logical properties. After the RDdss manager has finished maintaining the data, he or she returns to the Main Switchboard by clicking on the "Return to Main Switchboard" button.

After data maintenance, the RDdss manager is ready to perform data preprocessing in prepartion for a model run. By clicking on the Preprocessing and Execution button, the Main Switchboard closes and the Preprocessing and Execution Switchboard opens. From here, as on all other switchboards, the RDdss manager starts at the top and works down.

The first three preprocessing buttons directly effect the generation of the class demand, class penalty, and Marine-to-class fitness matrix. This is why they come before the fourth button, Generate AMPL Files. Preprocessing in the correct order will reduce the amount of time spent setting up the run, by minimizing the need to generate a new class demand, class penalty, and Marine-to-class fitness matrix.

The first preprocessing button concerns special assignments. Specially assigning a recruit affects the AMPL input in two ways. First, the respective member is not included in the Marine-to-class fitness matrix, since they already have an assignment. Second, the class demand for the class the recruit is assigned to must decrease by one. Otherwise, it may become overfilled.

The second preprocessing button concerns reclassification of a Marine. Reclassified Marines affect the AMPL input in two ways. First, the class demand of the class they are no longer assigned to must increase by one. This provides an opportunity to fill the empty seat during a subsequent run. Second, the class demand of the class the Marine has been reassigned to must decrease by one. Otherwise, it may become overfilled.

The third preprocessing button concerns data scrubbing, which also affects the AMPL input. It is an attempt to identify and correct errors relating to the Marines. An example is a Marine who has been given an unknown PEF. Since it is not identified by the RDdss, the member will receive a zero fitness score for every class. This will prevent the Marine from getting an assignment.

Following the completion of special assignments, reclassifications and data scrubbing, the RDdss manager is ready to generate the AMPL input files. After going to the Generate AMPL Files form, the first concern is specifying the weights for the mandatory and desired properties. This is specified by the RDdss manager at step 3d(i). What this does is indicate how important the mandatory properties are with respect to the desired properties. For instance, if the RDdss manager decided to give a weight of 1.0 to the Mandatory selection, the Desired selection would automatically fill in with 0.0. This would indicate the desired properties are of no consequence. The default for these two selections is 0.7 for Mandatory, and 0.3 for Desired.

Next, at step 3d(ii), the RDdss manager selects the MCT graduation date desired. This is selected from the drop down list. Then, the RDdss manager pushes the "GO!" button. The system will now generate the AMPL input files, completing the run set-up.

2. Model Execution

Execution of the assignment model takes place after the run set-up has been completed. Figure 14 graphically illustrates the steps taken to execute the model. A discussion of this is now given.

From the Main Switchboard, the RDdss manager points and clicks on the Preprocessing and Execution button. This takes him or her to the corresponding switchboard. From here, the Execute Solver/Options selection is made. This opens up the form where the model is executed from.

The Execute Solver/Options form provides the RDdss manager the ability to set the fit and fill coefficients for the objective function. The default values are 1 for

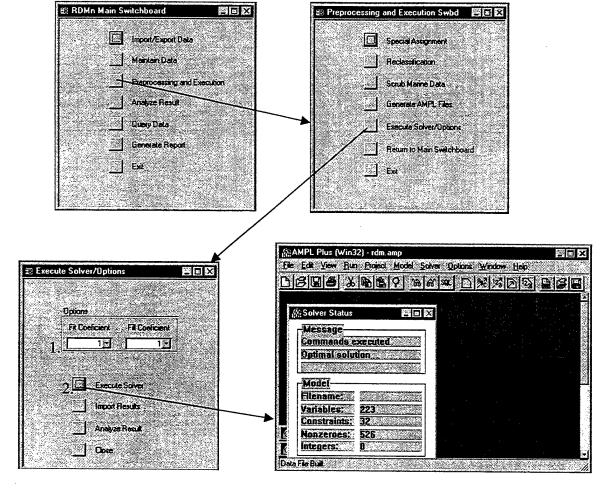


Figure 14. Model Execution

each coefficient. The RDdss manager can change either of these with a whole number from 0 - 100. The significance of these numbers is discussed in detail later in this chapter. Once the desired coefficients have been chosen, the Execute Solver button is pushed.

By selecting the Execute Solver button, AMPLPlus is launched. This application will run without user interaction. First, it will import the RDdss mathematical assignment model. Next, the specified fit and fill coefficients are retrieved. Finally, the preprocessed data generated during the run set-up are imported. Using this input data, AMPLPlus works in conjunction with the solver and generates an optimal assignment solution.

With the generation of an optimal assignment solution, the results are sent to an output file called "rdm.out." AMPLPlus, having completed its task, now closes. This indicates an optimal solution was found and is available for importing. So, the RDdss manager now imports the results by pushing the Import Results button on the Execute Solver/Option form.

3. Customizing a Run and Results

As mentioned in the previous subsection, the RDdss manager can set the fit and fill coefficients of the objective function. This is a key capability of the new system. It is the means by which the RDdss manager can customize a run and "game" the RDdss. This "gaming" of the new system is essential for determining a "good" assignment result.

For instance, if the fit coefficient is set to 0, and the fill coefficient is set to a number > 0, say 1, the assignment model will maximize the fill of schools having early report dates. This has both advantages and disadvantages. One advantage is the average wait time for Marines to attend a school is minimized. Another is that the number of unfilled school seats, having a report date between the current and next scheduled model run, is minimized. However, a disadvantage is the average Marine-to-school fitness score is guaranteed to be the lowest score of all runs.

Conversely, if the fit coefficient is set to a number > 0, say 1, and the fill coefficient is set to 0, the assignment model will maximize the average Marine-to-school fitness. An advantage here is the increased chance of each Marine successfully completing their ELS, establishing a pattern of success early in their career. However, one disadvantage is the wait time for a Marine to attend a school is guaranteed to be the longest. Also, the number of unfilled school seats, having a report date between the current and next scheduled model run, is guaranteed to be the greatest.

Neither of the above solutions is ideal. A better solution is some where between these two extremes. By changing the fit and fill coefficients of the objective function, the RDdss manager has a means for customizing each run to ensure a "good"

C. INNOVATIONS IN USER INTERACTION

A number of user interaction innovations have been made in the RDdss. Two of them have already been discussed. These were the intuitive navigational scheme using the switchboards, and the elimination of manually entering data already available in the system. One more note worthy innovation is now introduced. It is a date change innovation.

The date change innovation concerns changing the graduation date of the Marines in the downloaded RD1 file. This is necessary for generating correct assignment results. The date in the downloaded RD1 file is based on graduation from the MCRD. However, the model needs to know when the Marines are available for assignment. Availability is based on the MCT graduation date.

The old system solution to this problem took three steps. First, the RDM manager used a calendar to determine the MCT graduation date. This is normally 27 days following completion of MCRD, and is always on a friday. So, the RDM manager will find the MCRD graduation date on the calendar and count 27 days. The friday nearest to this day is the day desired. Second, this MCT graduation date, along with the RD1 file, is sent to another branch in the USMC where the date change is made. Third, the file is returned to the RDM manager, who imports the file into the RDM.

The reengineered system has streamlined this process. Within the RDdss, the RDdss manager makes the date change. It is accomplished with the push of a couple buttons.

Figure 15 shows how these changes are made. First, the RDdss manager selects the MCRD graduation date requiring a change. Once this is selected, a calendar appears. Its purpose is to help the RDdss manager correctly identify the MCT graduation date. Next, the "=" button is pushed. Its purpose is to add the number of

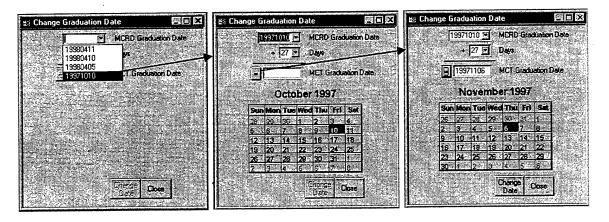


Figure 15. Changing a Graduation Date

days specified in the "Days" field (default is 27), to the MCRD graduation date. This updates the calender as shown on the far right. When the correct date is found, the "Change Date" button is pushed. This makes the desired change to the data in the RDdss database.

D. INNOVATIONS IN ANALYZING MODEL RESULTS

As discussed earlier, the RDdss manager has the capability of "gaming" the system by using different fit and fill coefficients. However, having this ability is not enough. The RDdss manager still needs a means to compare one run against another.

It is hard, if not impossible, to estimate the quality of a solution simply by looking at a list of assignments. The actual assignment results depend on the values of the fit and fill coefficients, which cannot be set at the ideal levels without understanding the impact on solution quality. So, analyzing run results to get insight and develop a "good" solution is now discussed.

Four measures are considered particularly useful in evaluating alternative solutions.

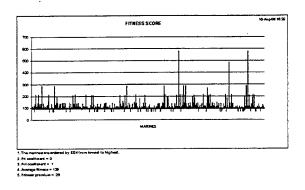
1. Fitness premium. The Marine-to-school fitness function is defined in a way that for each school, the average fitness over all Marines *eligible* for that school is 100. So, for any school, if the average fitness computed over Marines *assigned*

- to that school is greater than (or less than) 100, the difference represents a positive (or negative) premium.
- 2. Unfilled seats in first week. Since the model is run nearly every week, seats left unfilled in classes starting in the first week will remain unfilled. This represents wasted resources.
- 3. Average wait time for Marines. Experience has shown that the longer a Marine waits before attending their ELS, the greater the chance of disciplinary problems. Therefore, it is generally better to keep this wait period short.
- 4. Unassigned Marines. A purpose of the system is to assign each Marine to a school. Therefore, knowing the number of unassigned Marines is an important measure.

To provide the RDdss manager insight into the assignment results, these measures have been incorporated into output representations, including summary statistics and detailed graphs. Each output provides both numerical and visual information. The numbers are used for quantitative comparisons. The graphical information provides a big picture view for use in a qualitative comparison.

As an example, consider the two fitness graphs in Figure 16. Both of these were produced using an RD1 file of 344 Marines and an BNA extract with school data covering a 120 day period. Below each graph is amplifying and numerical information. The bar chart on the left has a fit coefficient of 0 and a fill coefficient of 1. Additionally, its fitness premium is $28 \ (=128-100)$. The bar chart on the right has a coefficient of 1 for both fit and fill. Its fitness premium is $38 \ (=138-100)$. The fit numbers are quantitatively comparable. The fitness premium for the run on the right is $36\% \ (=100\% \ x \ [38-28]/28)$ better than the run on the left.

The above numerical analysis is also supported by visually comparing the bar charts. Notice the large number of blips falling below the fitness score of 100 on the left graph. Each blip represents a Marine, and there are actually 44 of them. Conversely, notice the comparatively small number of blips below 100 on the right graph. There are 21 of them. The visual comparison of the two graphs reveals the



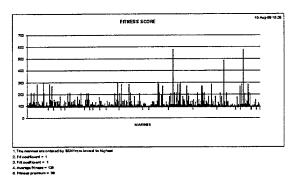
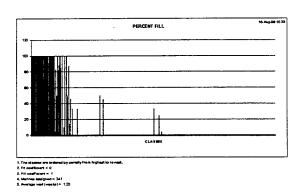


Figure 16. Two alternative results: Fit



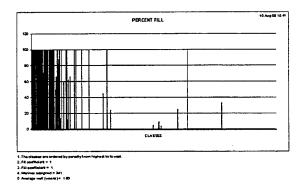


Figure 17. Two alternative results: Fill

qualitative difference. The graph on the right indicates a higher quality Marine-to-school fit. Of course, this supports the numerical comparison performed earlier.

As another example, consider the two fill graphs in Figure 17. These are based on the two model runs just described. In other words, the left graph has a fit coefficient of 0 and a fill coefficient of 1, and the right graph has a coefficient of 1 for both fit and fill.

Visually, these two graphs display an obvious difference. To appreciate how they are different requires an understanding of the significance of the blips. As note 1 of each graph indicates, "The classes are ordered by penalty from highest to lowest." Recall from Chapter III, this means the ordering is by class report date, starting with the earliest date. In other words, the bar chart on the left indicates almost every Marine will start school within the first three weeks. As discussed earlier, this is desirable. The bar chart on the right has its blips more spread out. So, by visually

comparing the two graphs, the left one has a higher quality with respect to minimizing wait time.

This is easily validated by the numbers given in note 5 of each graph. The average wait of a Marine from the left bar chart is 1.33 weeks, and the average wait from the other bar chart is 1.69 weeks. Now we quantitatively compare these values. The results from the left graph are 27% (=100% x [1.69-1.33]/1.33) better than the right.

In the following table, the results from three runs are given. The measures on the left are the four measures described earlier. Each run used the same 344 Marines and 120 days worth of school classes. The information for the first and third runs is from the two model runs discussed above. The second run was determined by "gaming" the system. In other words, we tried numerous combinations of the fit and fill coefficients until a "good" solution was found. Run 2 was the result. Understand though, we are not saying "best" solution. Only the USMC can determine what is best for them.

	Run 1	Run 2	Run 3
	(fit=0; fill=1)	(fit=1; fill=11)	(fit=1; fill=1)
Unfilled Seats (1st week)	23	23	23
Unassigned Marines	3	3	3
Average Wait (weeks)	1.33	1.33	1.69
Fitness Premium	28	31	38

The reason we feel Run 2 is a "good" solution is based on a quantitative comparison of the measures and one additional piece of information. It is the fact the USMC feels it is more important to minimize wait time than to maximize the Marine-to-school fit. The remainder of this section explains how we decided Run 2 was a "good" solution.

Starting with the values for unfilled seats, it is obvious all three runs are equal. The same is true for the unassigned Marines measure. So, these two measures provide no insight for comparison purposes.

Concerning the average wait, the values of Runs 1 and 2 are equal. Further, their 1.33 value is numerically smaller than the 1.69 value of Run 3. This is good for Runs 1 and 2. As was proven earlier, a value of 1.33 is 27% better than 1.69.

Finally, there is the fitness premium measure. The first observation made is that Run 1 is a candidate for elimination. The reason is as follows. Run 2 has the same score as Run 1 for the first three measures in the table, but it shows an 11% (=100%x[31-28]/28) increase in the fitness premium. So, Run 1 is eliminated from the competition.

This leaves the last two runs. Run 3 shows a 23% (=100%x[38-31]/31) increase in fitness premium over Run 2. This creates a conflict. Run 3 has a 27% increase in average wait time, which is bad. Conversly, it has a 23% increase in fitness premium, which is good. To decide which solution is better, more information is necessary. This comes from the fact mentioned earlier, that the USMC feels it is more important to minimize wait time than to maximize the Marine-to-school fit.

We can now conclude Run 2 is a better solution than Run 3. Here is why. Run 2 minimizes average wait by 27% by giving up a 23% increase in Marine-to-school fit. This agrees with the USMC desire to more strongly emphasize a minimum waiting time. So, Run 2 is a better solution than Run 3. Since it also satisfies the known desires of the USMC, we feel it is a "good" solution as well.

E. OBJECTIVE COMPARISON OF OLD AND NEW SYSTEM SOLUTIONS

In the previous section, we described how a set of solutions generated by the RDdss are compared to determine a "good" solution. Using the same approach, we now demonstrate how to objectively compare the results from the old system with the new system. This provides the USMC a means of determining which system's solution is better, if either. Comparison of the new and old system results has been made easy by automating the importing of the RDM result into the RDdss.

We have summarized the important data for the old and new systems in the following table, based on the same 344 Marines and 120 days of school classes discussed earlier. Since the assignment algorithm for the RDM was designed to maximize fill, a run from the RDdss based strictly on fill has also been included. It is the run with a fit coefficient of 0, and a fill coefficient of 1. The last column, labeled "Run 2," is a "good" solution we found by gaming the RDdss.

	Run 1	RDM	Run 2
-	(fit=0; fill=1)		(fit=1; fill=10)
Unfilled Seats (1st week)	23	23	23
Unassigned Marines	3	3	3
Average Wait (weeks)	1.33	1.34	1.34
Fitness Premium	28	29	32

We start by objectively comparing the RDdss fill-based result with the RDM result. They are labeled "Run 1" and "RDM," respectively. As we shall prove, the RDdss has done a better job at filling early school seats than the RDM.

Of the four measures, only one provides any useful insight for this comparison. It is the average wait measure. The reason the other three do not apply is as follows. The first two measures have the same values, so they provide no insight. The last measure is not too meaningful, since Run 1 is strictly based on maximizing fill. In other words, it disregards fit because its fit coefficient is set to 0. This leaves the average wait measure.

A quantitative comparison of the average wait shows the RDdss solution is 1% (100%x[1.34-1.33]/1.33) better than the RDM solution. This is explainable by considering the approach used in each model. The RDM assignment algorithm maximizes the fill of early school seats by looking at each school in a sequential fashion. In contrast, the RDdss conducts a global comparison of Marines and schools. In other words, it goes through numerous iterations until it finds an optimal fill solution. This show that the RDM assignment algorithm is only closely approximating the optimized assignment result.

Finally, we "gamed" the new system until a "good" solution was found. This is Run 2. It has a fit coefficient of 1 and a fill coefficient of 10.

The objective comparison of the RDM and Run 2 solutions is straigtforward. Since the first three measures are the same for both results, they provide no insights. This leaves only the fitness premium measure. A quantitative comparison of this measure shows Run 2 has a 10% (100%x[32-29]/29) better solution than RDM. This shows the benefit of "gaming" the RDdss.

F. SUMMARY

This relatively long chapter covered some important points related specifically to the RDdss. The architectural components of the new system were discussed first, followed by the steps taken to actually build this DSS. Then, from an operational point of view, using the RDdss was discussed. This included setting up a run, executing the model, and customizing a run for determining a "good" solution. Next, two innovations were discussed in great detail. These included the date change innovation and the analyzing model results innovation. Finally, a means of objectively comparing the solution from the old and new systems was discussed.

We truly believe the innovations and capabilites introduced by this prototype can greatly benefit the USMC's Marine Enlisted Assignments branch. It can help the USMC to more effectively accomplish its mission as stated by the Commandant of the Marine Corp, "to put the right Marine in the right place at the right time with the right skills and quality of life."

V. CONCLUSION

This concluding chapter has three short sections, followed by a final comment. In the first section, we reiterate the significant contributions made in the thesis. This is followed by a brief description of some lessons we learned. Then, some recommended improvements for the prototype are given. Following this last section, we comment on how this thesis work might benefit the other branches of the United States military.

A. SIGNIFICANT CONTRIBUTIONS

Four significant contributions beneficial to the USMC were made in this thesis. These were discussed in detail in the previous three chapters. A list and summary of the contributions is given here.

- Analysis and articulation of the recruit distribution process by interviewing USMC and DSAI personnel, reviewing available documentation, and operating the RDM we were able to articulate an understanding of the recruit distribution process using IDEF process modeling. Additional data modeling was articulated in a third normal form relational schema.
- Development of a mathematical model by analyzing the assignment process, criteria, and constraints, USMC policies and objectives, a mathematical model for the new system was developed.
- Fully functional prototype an intuitive and easy to understand new system that seamlessly interfaces with the old system was built. It provides an objective means of comparing assignment results of both systems, and was developed using COTS software applications.
- Elimination of the proprietary solver and associated contractor lock-in this
 was accomplished by replacing the proprietary solver with two COTS applications.

B. LESSONS LEARNED

Our original goal was to build an As-Is IDEF0 model of the RDM, about two months after starting the thesis. This worked out fine. The next goal was to take

another six weeks to develop a To-Be IDEFO model [Ref. 1]. This did not work out, for two reasons. First, our understanding of the entire recruit distribution process was still not mature enough to build the To-Be model. Nearly half a year was spent just thinking about its many details. Second, it is nearly impossible to envision the new system without first knowing the capabilities and limitations of the application used to build the prototype. One extreme envisions the impossible, while the other barely touches the reengineered system's potential. The lesson learned from this was that properly reengineering a process requires two things. A detailed understanding of the current process environment, and a good working knowledge of the capabilities and limitations of the application used to build the prototype.

Getting feedback from the Marine Enlisted Assignments branch was not always easy. Correspondence normally occured by e-mail. There was an inverse relationship between the number of questions asked and the number of answers given. As the one increased, the other decreased. So, another lesson learned was that it is best to limit each correspondance to a question or two.

While writing code, it is best to simultaneously document the code's purpose. Going back and trying to provide documentation at the end is too frustrating. This requires a considerable amount of discipline, but is well worth the effort. The lesson learned here is document as you code.

C. PROTOTYPE IMPROVEMENTS

A big part of this thesis involved the building and refinement of the prototype. The following topics are areas where the RDdss could use improvements.

1. Speed Improvements

a. Preprocessing Data

Of all the steps necessary to complete a run of the RDdss, the preprocessing step is the most time consuming. For the 344 Marines and approximately 500 school classes analyzed in this thesis, it takes about 30 minutes to preprocess this data. This is about ten times longer than the assignment model takes to find an optimal solution. As the size of the preprocessing data is doubled, so is the time needed to preprocess it. Finding a way to speed up this process is desirable. One possibility is to find a way to perform all the preprocessing in main memory, with only two accesses to the hard drive. The first access is to get the necessary Marine and school data. The second is to write the preprocessed results back to the hard drive.

b. Analyzing Result

Compared to all other forms and switchboards in the RDdss, opening the "analyze results" forms is the most time intensive. With the 344 Marines and approximately 500 school classes, it takes just under a minute for any of these three to open. This feels like an eternity when you are in a hurry. The reason it takes so long is the creation of temporary tables, numerous calculations and comparisons, and retrieving of data from flat files. Finding a way to reduce this time is desirable. One possibility is to create another form which would contain only the four objective measures. Currently, the RDdss manager must go to two different forms for this information. Each containing information and displays in addition to the objective measures, which slow them down.

2. Multiple Solution Storage

Currently, the prototype will only save the results of one solution. This means the RDdss manager must either print-out hard copies of the graphs, or manually write down each solution's objective measures for comparison with other runs. An improvement here should allow the storage of at least three solutions. This would permit the RDdss manager to easily compare each solution. He or she could then eliminate one or two undesirable solutions, while continuing to search for a "good" one.

3. Administration Switchboard

To look at all the schools or properties in one display, the RDdss manager must open up the associated school or property table. A reason for doing this is system administration. For instance, if a supervisor is auditing the RDdss's property data, looking at all the data at one time is convenient. A simple way of including this feature is by adding another switchboard. The switchboard's buttons would have VBA code associated with them, causing the desired tables to open.

Any benefits derived from this thesis work were specifically aimed at the USMC. However, it does not have to end there. Like the USMC, other branches of the United States military must deal with the problem of how best to assign their service members to schools. Since all the services require their enlisted personnel to take the ASVAB test, the approach used in our prototype might prove an ideal solution. Further, our efforts may also contribute to the reengineering of other assignment models. So, this thesis work could actually benefit all branches of the United States military.

APPENDIX A. ACRONYMS

Acronym=>Meaning

AMPL A Modeling Language for Mathematical Programming

ARMS Automated Recruit Management System
ASVAB Armed Services Vocational Aptitude Battery

BNA By Name Assignment System
BPWin Business Process for Windows
COTS Commercial-off-the-shelf

CPlex Optimization Package for Complex Linear, Network and Integer Programming

DSAI Decision Support Associates, Inc.

DSS Decision Support System ELS Entry Level School

ICOM Input, Control, Output, Mechanism

IDEFDefense Institute ModelingIDEF0Business Process ModelingMCRDMarine Corps Recruit DepotMCTMarine Combat Training

MODS Military Operational Data Store MOS Military Occupational Specialty

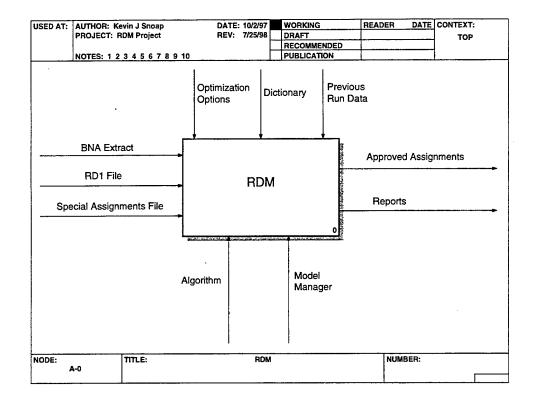
PEF Program Enlisted For

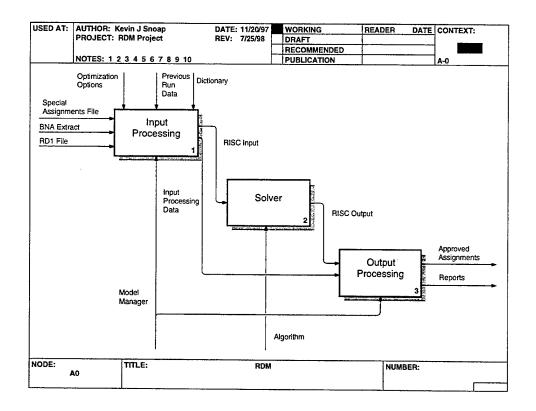
RD1 Recruit Distribution Input File RD3 Recruit Distribution Output File

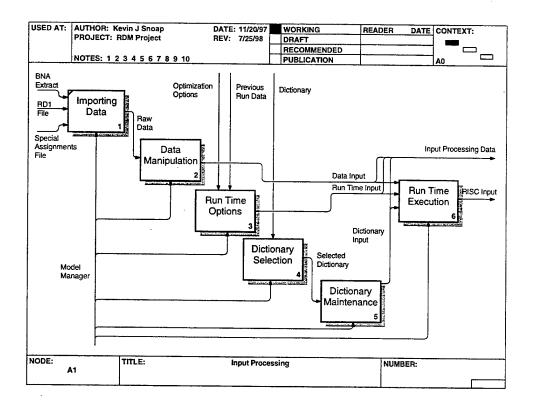
RDdss Recruit Distribution Decision Support System

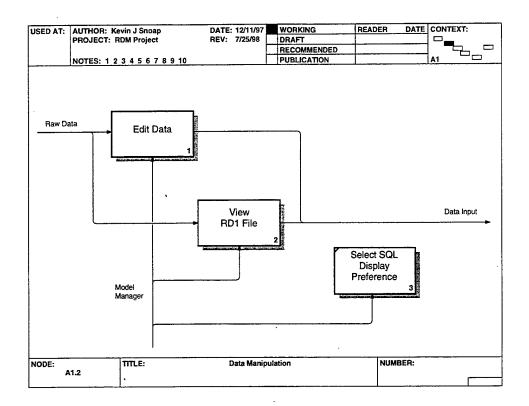
RDM Recruit Distribution Model
USMC United States Marine Corps
VBA Visual Basic for Applications

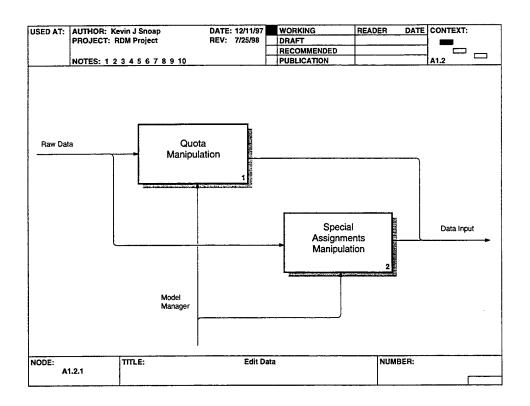
APPENDIX B. AS-IS RD BUSINESS PROCESS (IDEF0) MODEL

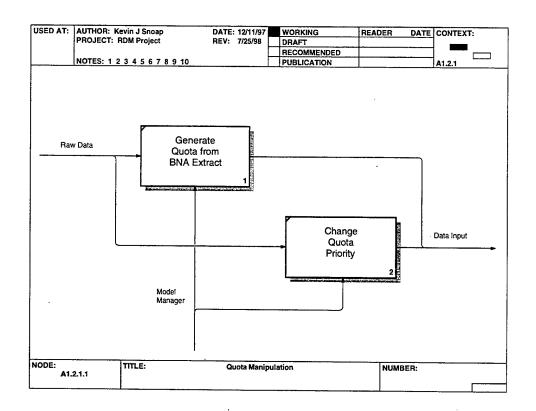


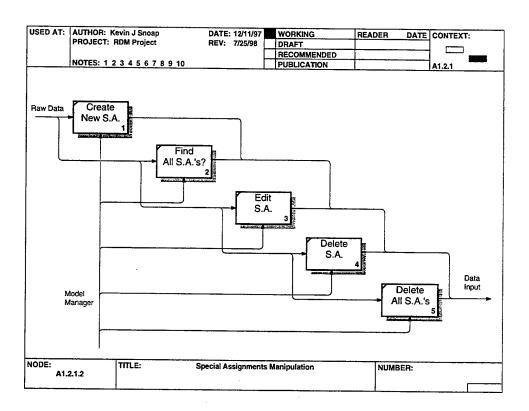


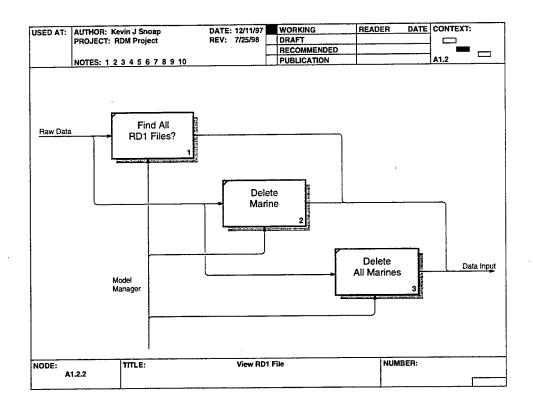


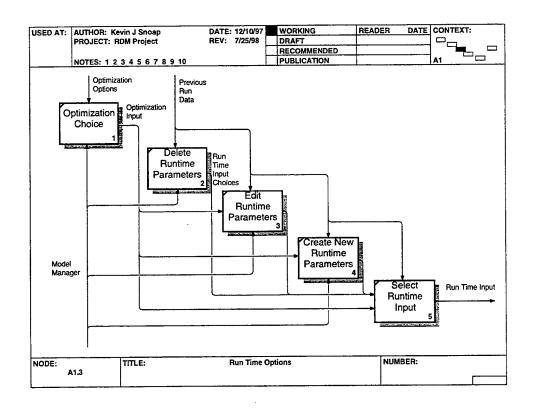


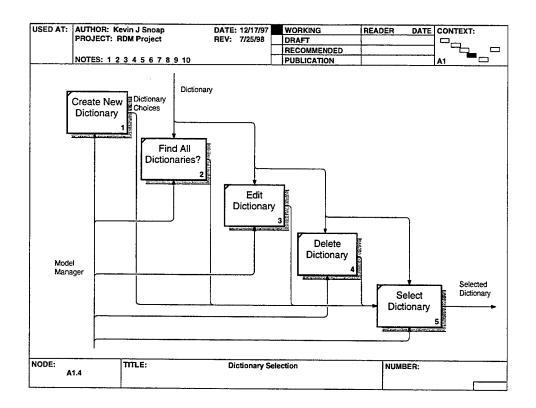


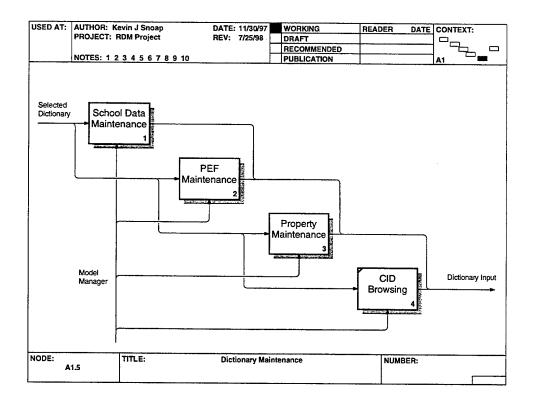


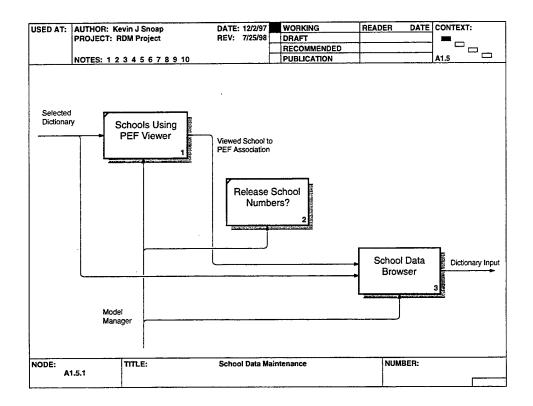


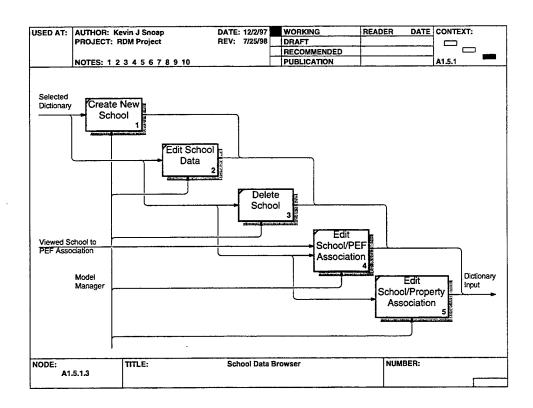


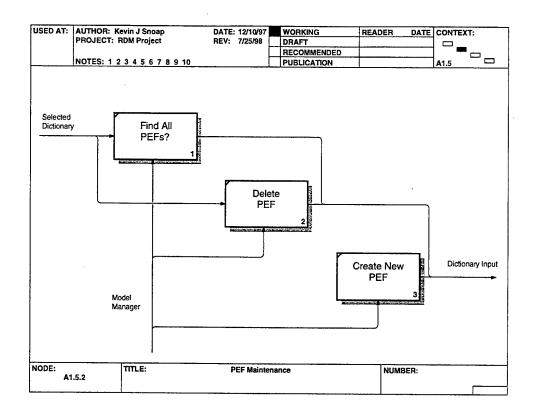


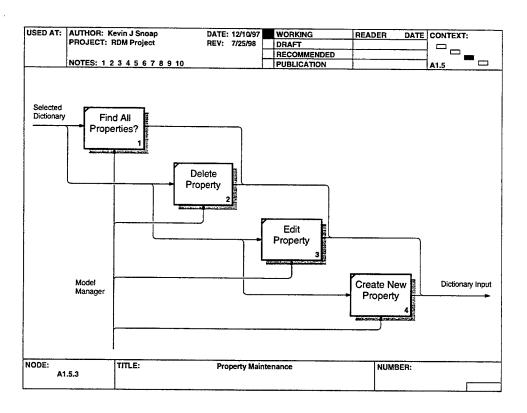


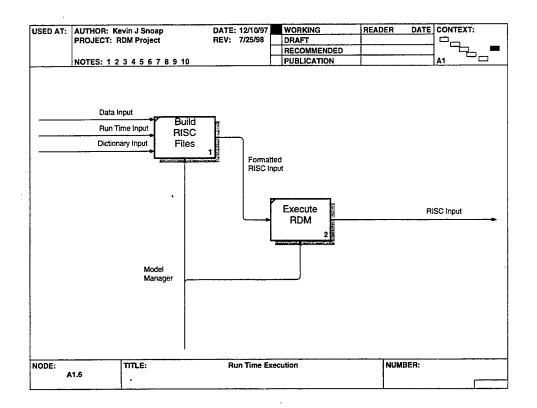


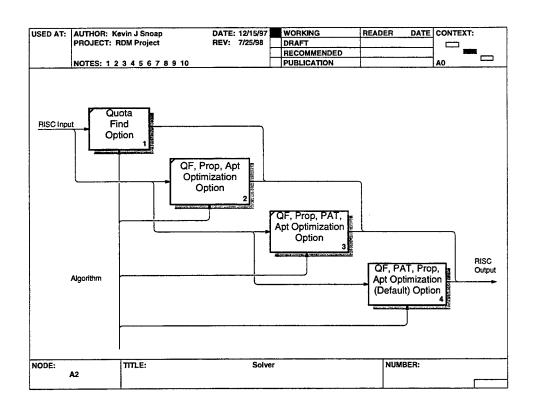


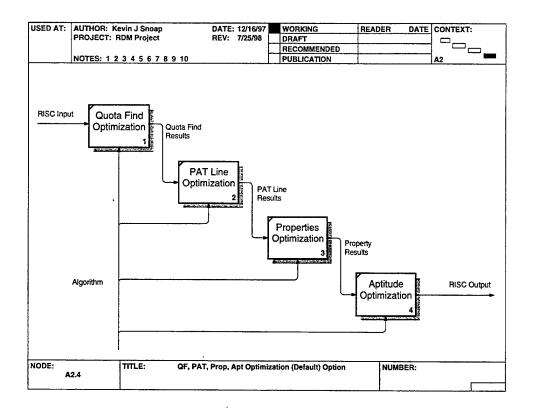


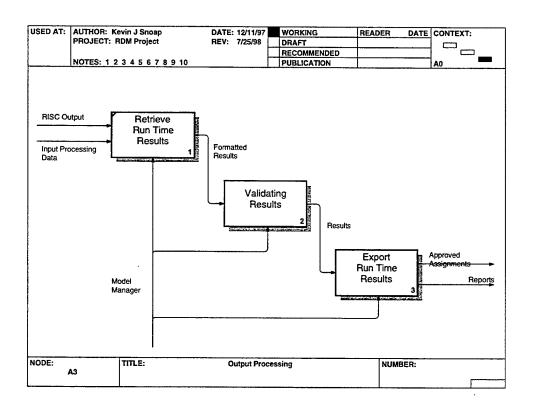


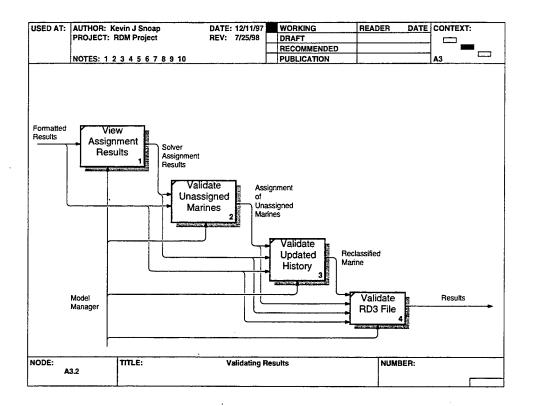


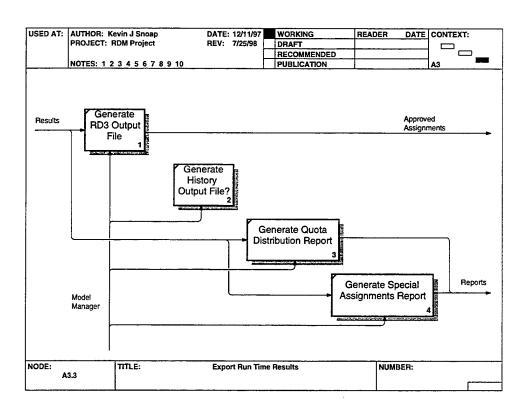




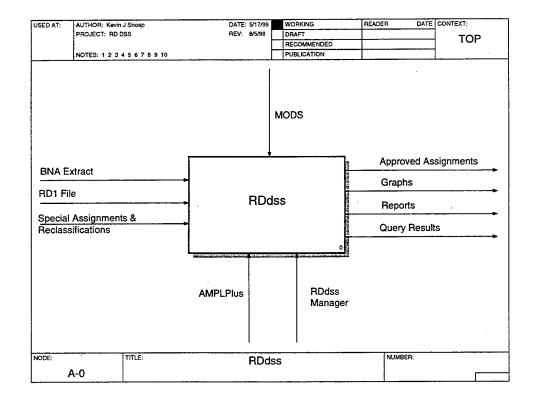


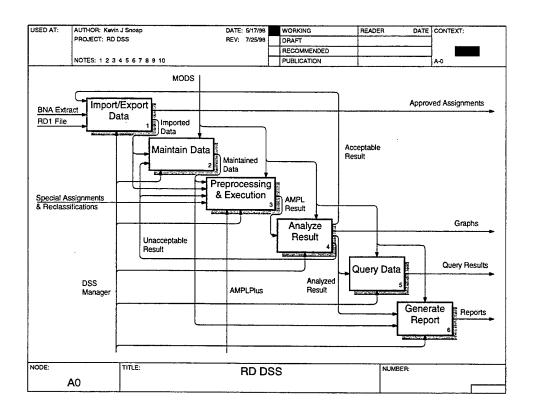


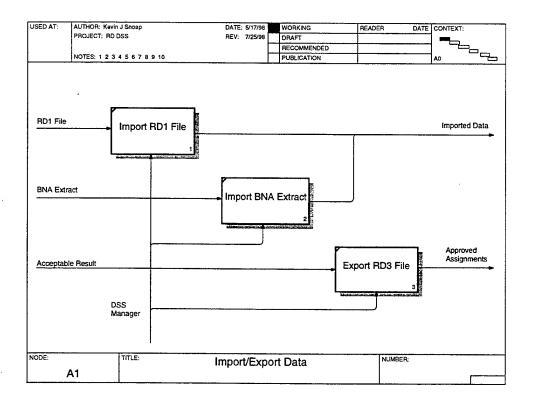


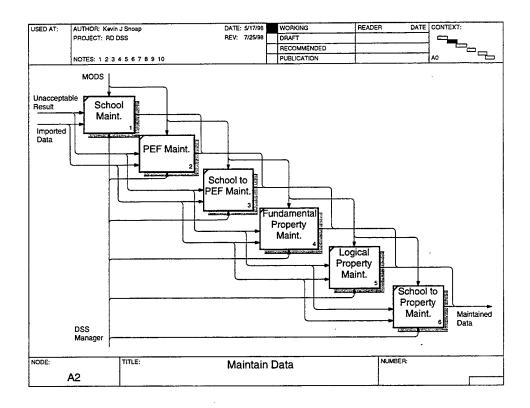


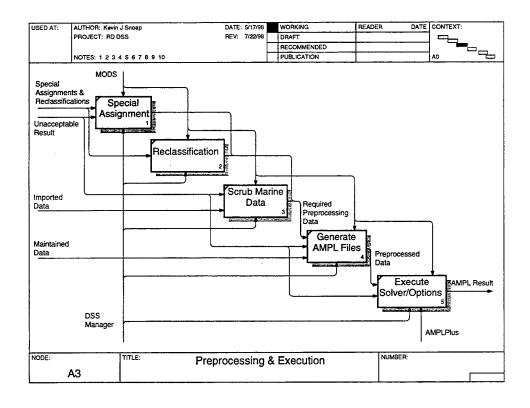
APPENDIX C. TO-BE RD BUSINESS PROCESS (IDEF0) MODEL

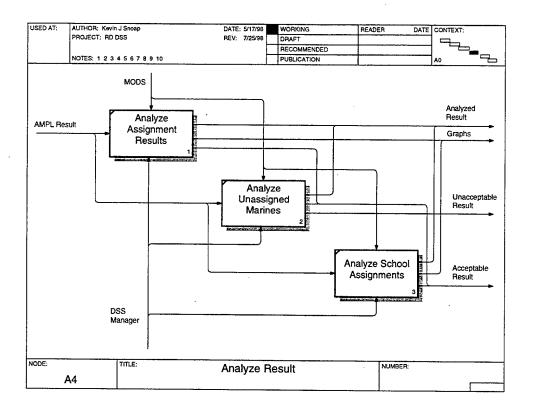


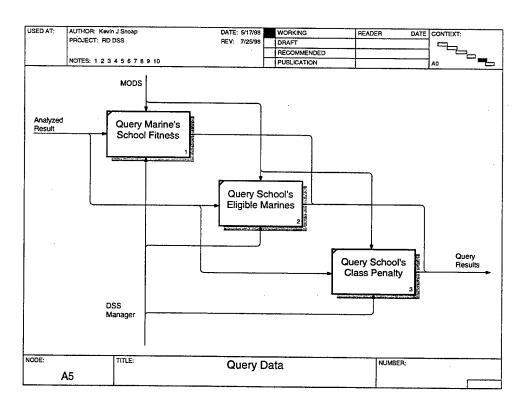


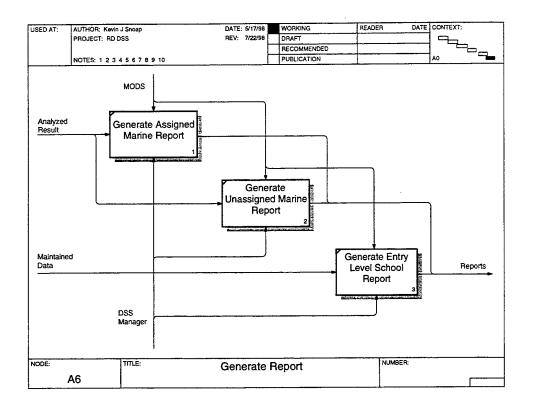












APPENDIX D. RDDSS VBA CODE

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MetbMCTGadDate.Enabled = False
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Dim IngStart As Long, IngEnd As Long
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                                                                'Provide a message indicating the change was made
MegBox "Date change was successful"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ' Starts the timer for displaying the time taken for this subroutine lngStart = Timer
                                                          End Sub
                                                          Private Sub btnEquals_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Prevents the user from going back to change the MCTGradDate unit as the is.

"made, or the reset button is pushed.

MeNATGradDate Enabled = False
wit ChatBound = MeUDatSpound
                                                                  Dim varDate As Variant
Dim intDays As Integer
                                                                  intDays = Me.cmbDays
varDate = Me.cmbMCRDGradDate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ' Generate the quota and penalty files
Quota_Penalty (verUDateBound)
                                                                If IsNuf(varDate) = False And IsNuf(intDays) = False Thon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'Update the quotarpensity records on Pils form strSQL = "SELECT DISTINCTION" (CLASS) [SCOLINSNIMBOR_FR], "& _ CLASS, [ANDO, FR], (CLASS, [CLASS, INC., FR], CLASS, [CASS, INC., FR], "MAN, FROM, FR, CASS, INC., FR, C
                                                                           *Format this date for use in the DateAdd function varDate = Format(varDate, *####/88/98*)
                                                                      "Add 120 days to this date
varDate = DateAdd("d", intDays, varDate)
                                                                         'Change calendar to this date
Melct/Calendar.Value = verDate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'update status of status text box
Me!Status = "Working...."
                                                                         *Convert the new date back into the original format varDate = Format(varDate, *yyyymmdd*)
                                                                           *Place the new date in the *upper date bound* text box on the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "update status of status text box
MelStatus = "Files generated!"
DoCrnd.Beep
                                                                               Me.bdMCTGradDate = verDate
                                                        *Allows user to change the graduation date in the MARINE table
MelbinChangeDate.Enabled = True
End If
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 56
Find Sub
58
Private Sub cmbMCRDGradDate_Attertupdato()
50
Private Sub cmbMCRDGradDate_Attertupdato()
50
Dim verDate As Variant
50
surDate = Me.cmbMCRDGradDate
64
MoltdVcTGradDate_Value = **
65
If IsNaf(verDate) = Reise Then
67
*Format this date for use in the DataAdd fur
varDate = FormativarDate, *Passivarian*
70
Change calendar on this date
71
MoltdCalendard. Value = verDate
72
MoltdCalendard. Value = True
73
MoltdCalendard. Value = True
74
MoltdCalendard. Value = True
75
MoltdCalendard. Value = True
                                                       End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , " & __
"and " & IngSec & " secs.", vbOKOnly, "Recruit Distribution Model"
                                                                           Me.btnPrepareAndExecuteSolver.SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Private Sub btnGo_MouseCown(Button As Integer, Shift As Integer, X As Y As Single)
```

```
66 MeriStatus = "Working...."
67
68 End Sub
69
69 Private Sub bhiPrepareAndExecuteScher_Click!
71 On Error GoTo Err_InthPrepareAndExecuteScher_Click!
72
73 Dim stDockhare As String
75 'Case the current form
76 'Case the current form
77 DoCrad Case
78 'Open specified from stDockhare... stLinkCriteria
79 stDockhare - "ImritrepareAndExecuteScher"
80 DoCrad OpenForm stDockhare... stLinkCriteria
81 Exit Sub
82 Exit Sub Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21 Resume Exit_binFind_Click
22 End Sub
23
24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Close the current form
DoCmd Close
'Open specified form
StDochlare - Impreprocessing&ExecutionSwitchboard'
DoCmd OpenForm stDocName, ... stLinkCriteria
                                         105 resulte Eli_on-estrer-revolus_cuck
105 Ind Sub
110 End Sub
1112 Private Sub cmbCourseNamberFind_After Update()
113
114 Dim R As Recordest
115 Set R = Ms Recordest Clone
115 Set R = Ms Recordest Clone
116 R Findfert (ScCourseNamber_FR() = * & Chr(34) & Medicint/CourseNamber_FR() 
                                                          109
110 End Sub
                                      *Format this date for use in the DateAdd function varDate = Format(varDate, *8888/88/88*)
                                                                                                      * Add 120 days to this date
verDate = DateAdd("d", 120, verDate)
                                                                                                              'Convert the new date back into the original format 
varDate = Format(varDate, "yyyymmid")
                                                                                                                    ' Place the new date in the "upper date bound" text box on the
                                                 rm: frmFind
                                                                     ode
Attribute VB_Name = "Form_fmfind"
Attribute VB_Creatable = True
Attribute VB_Predoclared(d = True
Attribute VB_Exposed = False
Option Compare Database
Option Explicit
                                            3 Altribute VS, Productavedid
4 Altribute VS, Exposed - File
5 Option Compare Database
6 Option Explore
7
8 Private Sub binFind_Cick()
9 On Error Cal'o Err pikFind,
11 Screen, PreviousContol
12 Formal mission Cick
14 DoCnd DoMenul Ism act
15 Err binFind_Cick
16 Err binFind_Cick
18
18
19 Err binFind_Cick
20 MagBox Err, Description
                                                                          Private Sub btnFind_Click()
On Error GoTo Err_btnFind_Click
                                                                                     Screen PreviousControl Seffocus
Formallim SchoolToPropertyMaint.Seffocus
DoCmd.FindFiscord Ms.cmbCourseNumber, , True, , True, acAll
'DoCmd.DoMenutism acFormEur, acEdiMenu, 10, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       110 Priede Sub Form_Durrent()
111
112 Den strSCL As String
113 stSCL = "SELECT MarineField, Operator FROM FUNDAMENTAL_PROPERTY
WHERE FinopanyName_PK = " & FundPropName
115
116
```

```
234 Elsell TypeCt PrevCt is ListBox Then
235 soldStr = Ill(VarType(PrevCt) > V_NULL_PrevCt, ")
236 Elsell TypeCt PrevCt is Combobx Then
237 soldStr = Ill(VarType(PrevCt) > V_NULL_PrevCt, ")
238 Else
239 Else
230 Else
231 Elsell TypeCt PrevCt is Combobx Then
231 soldstr = Ill(VarType(PrevCt) > V_NULL_PrevCt, ")
232 Else
233 Elsell TypeCt PrevCt, and Elsell TypeCt, ")
244 Elsell TypeCt, and E

117 *Forces user to enter data for property name and description
118 If IshAil/Ne FPropertyName, PK Vable) Or IshAil/Ne Description Value)
119 MethAutrinoFeet Enabled = Fabes
120 MethAutrinoFeet Enabled = Fabes
121 Allow Services (Services of Fabes)
122 MethAutrinoFeet Services (Services of Fabes)
123 MethAutrinoFeet Services (Services of Fabes)
124 MethAutrinoFeet Services (Services of Fabes)
125 *Allows the user to enter values for the fundamental equation
126 Sevices (Services of Fabes)
127 MethAutrinoFeet Enabled = True
128 MethAutrinoFeet Enabled = True
129 MethAutrinoFeet Enabled = True
130 If FormstimeTundamentalProperty Value = "In" Then
131 MethAutrinoFeet Services (Services of Fabes)
132 MethAutrinoFeet Services (Services of Fabes)
133 MethAutrinoFeet Services (Services of Fabes)
134 services = SELECT DISTINICT* & MethAutrinoFeet & *FROM
135 FormstimeFundamentalProperty Value File Services = SECL = SELECT DISTINICT* & MethAutrinoFeet & *FROM
136 Enable Services (Services of Services of Se
133
Formst Imm-undamental Property is subtimif- undamental Property icmb
ros = strSQL

140
Met subtimif- undamental Property, Visible = True
Met s
                                                                                                                                                                                                                           rmFundamentalProperty!sub/rmFundamentalProperty!cmbValue_FK.RowSou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Form: tim/Generale/Poport
Code

1 Altibute VB_Name = "Form_frm/Generale/Poport"
2 Altibute VB_Creatable = True
3 Altibute VB_Predictand = True
4 Altibute VB_Predictand = True
4 Altibute VB_Predictand = True
5 Option Compare Database
6 Option Explicit
7
Private Sub binAssignment/Paport_Click()
9
Private Sub binAssignment/Paport_Click()
10
DoCmd_Open/Paport "rptssigned/Merines", ac-View/Previ
11
12 End Sub
13
14 Private Sub binEntry/LevelSchool_Click()
15
DoCmd_Open/Paport "rpts:hty/LevelSchool", ac-View/Previ
17
17
18
DoCmd_Open/Paport "rpts:hty/LevelSchool", ac-View/Previ
17
18
19 End Sub
19 End Sub
19 End Sub
                                                                                                                            151
152 Private Sub FPropertyName_PK_AfterUpdate()
                                                                                              | Towns | Town
                                                                                                                            153
154 Dim strSQL As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DoCmd.OpenReport "rptassignedMarines", acViewPreview
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17
18 End Sub
19 End Sub bibDelt_Clackt)
21 Private Sub bibDelt_Clackt)
22 On Error Coffo Err_briest_Clack
23 End Sub
25 DoCmd_Close
26 Ext Sub
27 Ext_briest_Clack
28 Ext Sub
29 Ext Sub
20 Error Sub-Belt_Clack
20 Ext Sub
30 Err_briest_Clack
31 MagBox Err_Description
32 Resures Ext_briest_Clack
33 MagBox Err_Description
33 Private Sub bibNinassignodMarineReport_Clackt)
34
35 End Sub
36 DoCmd_OpenReport 'rpt.thassignodMarines", ac.ViewPreview
40 Ext Sub
41 Ext Sub
42 Private Sub Commands_Clackt)
43 Private Sub Commands_Clackt)
44 Dim stDochtern & Sching
45 'Close the current form
50 DoCmd_Close
51 Copen specified form
52 Subcolumn = "ImmPDM_Main_Switchboard"
54 DoCmd_OpenReport Subchame__, stLinkOriteria
55 Ext_Commands_Clack
56 Ext_Commands_Clack
56 Ext_Commands_Clack
57 Ext_Commands_Clack
58 Ext_Command
                                                                                                             186
187 Dim strSQL As String
188
19 'Update the Potential Value list
180 strSQL = "SELECT DISTINCT" & Mel/MarineField & "FROM MARINE."
                                                                               57
58 Err_Command8_Click:
59 MagBox Err.Description
60 Passume Exit_Command8_Click
61
62 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Form: frmimport/ExportSwitchboard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ministry Very Service - "Form, Immisport/ExportSwitchboard Athibok VB, Creatable - True Albitude VB, Creatable - True Albitude VB, Exposide - Faite - Albitude VB, Exposide - Faite - Athibude VB, Exposide - Faite - Albitude VB, Exposide - Faite - True - Albitude - Faite - True - 
                                                                                         200 De Error Corto Err_behöbele. CI
200 210 211 DoCmd DoMenuttem acFormé
212 DoCmd DoMenuttem acFormé
213 DoCmd DoMenuttem acFormé
213 214 Est behobele. Cick
215 Err behöbele. Cick
216 Err behöbele. Cick
218 Meßober Fr. Description
219 Resume Est_behöbele. Cick
220 211 Erd Sub
222 Private Sub Commendia_cick()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Private Sub btnExit_Click()
On Error GoTo Err_btnExit_Click
                                                                                                                                                                    DoCmd.DoMenultem acFormBar, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenultem acFormBar, acEditMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DoCrnd, Close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Exit_binExit_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Err_btnExt_Click:
MagBox Err,Description
Resume Ext_btnExt_Click
                                                                               21 End Sub 222 Pinkala Sub Command14_Click() 222 Pinkala Sub Command14_Click 222 Die Error GoTo Err_Command14_Click 224 Dim stDlaSt's As Shing 225 Dim stDlaSt's As Shing 225 Dim PrevGT As Counted 227 Gonet ERP_COLINOTISCT = 91 229 Gent ERP_COLINOTISCT = 91 220 Set PrevGT = Screen.PrevIousControl 231 LT TypoCP PrevGT Is TestBox Then 233 stDlaSt's = II((VarTypo(PrevGT) > V_2 Control Click TestBox Then 233 stDlaSt's = II((VarTypo(PrevGT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevGT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevGT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevGT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click TestBox Then 233 stDlaSt's = III(VarTypo(PrevCT) > V_2 Control Click 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Private Sub btnExportRD3_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application SelOption "Contirm Action Queries", False DoCmd. SetWarnings (False)

Exports assignments to RD3.bd file ExportRD3

Archives data from the Marine and assignment tables,
                                                                                                                                                                    Set PrevCt = Screen.PreviousControl
                                                                                                                                                                    If TypeOt PrevCtl is TextBox Then
stDiatStr = Iff(VarType(PrevCtl) > V_NULL, PrevCtl.**)
```

```
Archive Data
Archive Data
Application is SelCpilon "Confirm Action Queries", True
Application is SelCpilon "Confirm Action Queries", True
Bit Sub
Bit Sub Command2 (Cick)
Bit Sub Command2 (Cick)
Application is SelCpilon "Confirm Action Queries", False
DoCrad SelfWarnings (Faste)
Imports the RDI file
Imports the RDI file
Imports SelCpilon "Confirm Action Queries", True
Application SelCpilon "Confirm Action Queries", True
Cose the current form
DoCrad SelfWarnings (True)
Cose the current form
DoCrad Cose
DoCrad SelfWarnings (True)
DoCrad Cose
DoCrad SelfWarnings (True)
DoCrad Cose
DoCrad SelfWarnings (True)
DoCrad Cose
DoCrad SelfWarnings (Faste)
DoCrad Cose
DoCrad SelfWarnings (Faste)
DoCrad Cose
DoCrad SelfWarnings (Faste)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ' declare the temporary string as an array
ReDim strTemp(0) As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *Find the position of the first space
IntSnacnPos = InStristrinName, **)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Loop until no more spaces are found. InStr returns 0 if the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                not found.

Do Until IntSpacePos = 0

redimension the array, adding another element

'UBound lois us how many elements there already are in the
Rabium Persene stTemp(UBound(stTemp) + 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              set the new element to the characters from the beginning of string up to the first space. Left's returns a number of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'from the beginning of a string
strTemp(UBound(strTemp)) = Trim$(Left$(strInName, intSpacePos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'now we've copied these characters into the name, they can 
removed from the original string. RightS returns a number 
characters from the end of the string. It is the rightmost 
characters, therefore we subtract the position of the space 
the length of the string. This gives us the number of 
tensation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               characters remaining.

88 strinkarre = LTrimS(RightS(strinkarre, Lon(strinkarre)

99

90 find he next space

inSpacePos = inStristrinkarre, ") "Or inSpacePos =
InStristrinkarre, "(") "Or inSpacePos = InStristrinkarre, ")"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ors remaining.
strinName = LTrim$(Right$(strinName, Len(strinName) -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inSpacePos = InStruktinkerne. ") "Or inSpacePos = InStruktinkerne." (") Or inSpacePos = InStruktinkerne. (") Or inStruktinkerne
                                                                   *Close the current form
DoCmd,Close
*Open specified form
stDockme * thmPDM_Main_Switchboard*
DoCmd,OpenForm stDockame, , stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         111
112 End Sub
113 Private Sub Command11_Cilcic)
115 Forces user to enter data for property name and description
116 Forces user to enter data for property name and description
117 if Ishaki/Mc LiPropryNythem, PKV3abe) Or Ishaki/Ms Description, Value)
118 MelCommandS Enabled = False
129 MelCommand LiPrabled = False
120 MelCommand LiPrabled = False
121 MelmblungProp. Enabled = False
122 MelmblungProp. Enabled = False
123 MellogicaEquates Enabled = False
124 MelmblungProp. Enabled = False
125 MellogicaEquates Enabled = False
126 MellogicaEquates Enabled = False
127 MellogicaEquates Enabled = False
128 MellogicaEquates Enabled = False
129 MellogicaEquates Enabled = The MellogicaEquates Enabled = True
130 MellogicaEquates Enabled = True
131 MellogicaEquates Enabled = True
132 MellogicaEquates Enabled = True
133 MellogicaEquates Enabled = True
134 MellogicaEquates Enabled = True
135 MellogicaEquates Enabled = True
136 MellogicaEquates Enabled = True
137 MellogicaEquates Enabled = True
138 MellogicaEquates Enabled = True
139 MellogicaEquates Enabled = True
140 MelCommandS Enabled = True
141 MellogicaEquates Enabled = True
142 MellogicaEquates Enabled = True
143 MellogicaEquates Enabled = True
144 MellogicaEquates Enabled = True
145 MellogicaEquates Enabled = True
146 End Sub
147
148 MellogicaEquates Enabled = True
149 MellogicaEquates Enabled = True
140 MellogicaEquates Enabled = True
141 MellogicaEquates Enabled = True
144 MellogicaEquates Enabled = True
145 MellogicaEquates Enabled = True
146 End Sub
147
148 MellogicaEquates Enabled = True
149 MellogicaEquates Enabled = True
                                                                            85
6 Err_Command8_Click:
87 MsgBax Err_Description
88 Resume Ext[_Command8_Click •
89
90 End Sub
                                                       Form frmLogicalProperty
                                                                   Code

1 Attibute VB, Name = "Form_ImmLogicalProperty"
2 Attibute VB, Creatable = True
3 Astrobe VB, Prodectured of = True
3 Astrobe VB, Prodectured of = True
4 Astrobe VB, Exposed = Faste
5 Option Compare Database
6 Option Explicit
7 Pricals Sub tenClose, Click()
9 On Error GoTo Err_benClose_Click
10
11
                                                                                  11
12 DoCmd.Close
13 DoCmd.OpenForm
14
15 Edt_binClose_Click:
16 Edt_Sub
                                                                                                            DoCmd.Close
DoCmd.OpenForm "frmMaintenanceSwitchboard"
                                                                               17
18 Err_binClose_Click:
19 MsgBax Err.Description
20 Resume Exit_binClose_Click
                                                                         20 Heature conjunction
22 End Sub
23 End Sub
24 Private Sub embFundProp_Click()
25 Private Sub embFundProp_Click()
26 Adds the selected fundamental property to the logical equi-
27 Me LogicalEquation Value = Me LogicalEquation Value &
Me cmbFundProp_Value & **
28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  147
148 Private Sub Command8_Click()
149 Private Sub Command8_Click()
150 'Adds the left tracket to the logical equation
151 Me.LogicalEquation Value = Me.LogicalEquation Value & '(*)
152 Conf. 6...
                                                                            28 End Sub
29 End Sub
30 Private Sub cmbLogOper_Click()
31 'Adds the selected logical opera
32 'Adds the selected logical opera
                                                                                  31
2 'Adds the selected logical operator to the logical equation
33 Me.LogicalEquation.Value = Me.LogicalEquation.Value &
Me.cmbLogOper.Value &
**
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        153 End Sub
153 End Sub Command9_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Me. cmtb.cg/Cper. Value & * * * 34
35 End Sub * 36
67
67
68
38
39 Dim R As Recordsel*
10 Solt R & Me. Recordsel*
11 RefindFirst * * UnropertyName(First * & Chr(34) & Meljcmtb.PropertyName(First) & Chr(34) & Melgroth.PropertyNameFirst & Chr(34) & Melgroth.PropertyNameFirst & Chr(34) & Melgroth.PropertyNameFirst & Chr(34) & Melgroth.PropertyNameFirst & Melgroth.Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     158
159 End Sub
160 Private Sub binDelate_Click()
161 On Error GoTo Err_binDelate_Click
162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     163
164
DoCmd, DoMenultern acFormBar, acEdtMenu, B., acMenuVer70
165
DoCmd, DoMenultern acFormBar, acEdtMenu, B., acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        167 Exit_bin Delete_Click:
168 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        169
170 Err_btnDelete_Click:
171 MsgBox Err.Description
172 Resume Est_btnDelete_Click
                                                                      46 Eth Sub

Privale Sub Command 10_Click)
48 Privale Sub Command 10_Click)
49 Privale Sub Command 10_Click)
50 Piermoves the last enrity in the lot
51 Dim iniSpace/Fox As Integer
52 Dim iniSpace/Fox As Integer
53 Dim iniSpace/Fox As Integer
54 Dim iniSpace/Fox As Integer
55 Dim IniSpace/Fox As Variant
56 Dim IniSpace/Fox As Variant
59 Dim verCorw As Variant
50 Dim verCorw As Variant
50 Dim verCorw As Variant
51 Dim verCorw As Variant
52 Dim verCorw As Variant
53 Dim verCorw As Variant
54 Dim verCorw As Variant
55 Dim verCorw As Variant
55 Dim verCorw As Variant
56 Dim iniSpace/Fox As Integer
57 Dim verCorw As Variant
58 Dim verCorw As Variant
59 Dim verCorw As Variant
59 Dim verCorw As Variant
50 Dim verCorw As Variant
51 Dim verCorw As Variant
52 Dim verCorw As Variant
53 Dim verCorw As Variant
54 Dim verCorw As Variant
55 Dim verCorw As
                                                                                                                  ' Removes the last entry in the logical equation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     173
174 End Sub
175 Private Sub Description_AfterUpdate()
                                                                                                                     Dim strinklame, strUndo As String 'Input name 
Dim inSpacePos As Integer 'position of the space 
Dim! As Integer 'position of the space 
Dim booflesstif As Boolean 
Dim higConversion As Long 
Dim varCorn As Variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'get the logical expression
strinkarne = Me.LogicalEquation.Value
```

```
Met Commands Enabled = True

Met Indignation - Enabled = True

Met Commands Enabled = False

Met LogicalEquation Value = True

Met LogicalEquation Enabled = True

Met Command Enabled = True

Met Co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35
36 Exit_Commendo_Cick:
37 Exit Sub
38
39 En_Commendo_Cick
40 MagBox Err Description
41 Plesums Exit_Commendo_Cick
42 End Sub
Private Sub Command12_Click()
On Error GoTo Err_Command12_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46 On Error GoTo Erro, Commend 1,

77

48 Dim stDoc Name As String

50

1 Close the current form

50 DoCmd, Close

1 Open specified form

50 DoCmd, Close

51 DoCmd, Close

52 DoCmd, Close

53 DoCmd, Close

54 Subcommend 1, Clock

55 Est, Commend 12, Clock

56 Error, Description

57 Est, Commend 12, Clock

58 Description

59 Err, Commend 12, Clock

50 Err, Commend 12, Clock

51 Sub

52 Est Sub

53 Est Sub

65 Prests Est, Commend 12, Clock

66 Prests Est, Commend 14, Clock

67 Est Sub

68 Prests Sit Commend 14, Clock

68 Prests Sit Commend 14, Clock

69 Prests Sit Commend 14, Clock

69 Prests Sit Commend 14, Clock

69 Prests Sit Commend 14, Clock

60 Prests Sit Commend 14, Clock

61 Prests Sit Commend 14, Clock

61 Prests Sit Commend 14, Clock

62 Prests Sit Commend 14, Clock

63 Prests Sit Commend 14, Clock

64 Prests Sit Commend 14, Clock

65 Prests Sit Commend 14, Clock

66 Prests Sit Commend 14, Clock

67 Prests Sit Commend 14, Clock

67 Prests Sit Commend 14, Clock

67 Prests Sit Commend 14, Clock

68 Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Close the current form
DoCmd. Close
'Open specified form
stDockhame = "frmSchools"
DoCmd. OpenForm stDockhame... stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Err_Commend12_Click:
MagBox Err.Description
Resume Exit_Commend12_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         66 Private Sub Command14_Click()
67 On Error GoTo Err_Command14_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        67 On Error GoTo Err_Commend14_Cick
69 Dim stDccNeme As String
70 Dim stLinkCriteria As String
71 'Cose the current form
73 DoCmd.Close
74 'Open specified form
75 stDccNeme = 'ImrPEr'
76 DoCmd.Open-Form stDccNeme, ...
77
6 Ert_Commend14_Cick:
79 Ext_Commend14_Cick
80 Dim Str. Commend14_Cick
81 Err_Commend14_Cick
82 MegBox Err_Description
83 Pleasume Ext_Commend14_Cick
84 Str. Commend14_Cick
85 Dim Str. Commend14_Cick
86 MegBox Err_Description
86 Pleasume Ext_Commend14_Cick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Close the current form
DoCmd.Close
Open specified form
stDocName = 'ImPEF
DoCmd.OpenForm stDocName, . . stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Private Sub Command2_Click()
On Error GoTo Err_Command2_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 Private Sub Command2, Cack)
80 Din 1970 Connand2, Cack
80 Din 1970 Connand2, Cack
81 Dim 1970 Connand2, Cack
82 Dim 1970 Connand2, Cack
83 Dim 1970 Connand2, Cack
84 DoChard Colors
85 Copen specified form
86 Ext. Command2, Cack
100 Ext Sub
107 Command2, Cack
103 MagBox Enr. Description
104 Resume Ext. Command2, Cack
105 Copen Sub Command2, Cack
106 Copen Sub Command2, Cack
107 Copen Sub Copen Su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'Close the current form
DoCmd.Close
'Open specified form
stDockmer = 'IrmFundementalProperty'
DoCmd.OpenForm stDockme..., stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    108 Privata Sub Command4_Click()
109 On Error GoTo Err_Command4_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   199 On Error GoTo Err. Commands_Cick
110
111 Dim #BDochame As String
112 Dim #BDochame As String
113
114 **Close the current form
115 DoCrnd. Close
116 **Copen specified form
116 **Dochame = "fmilogicalProperty" aboutlance = "fmilogicalProperty" about the property of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122
123 Err_Command4_Click
124 MagBox Err.Description
125 Resume Exit_Command4_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             124 MagBox Err.Deacripton
125 Resume Est_Commends_Cick
126
127 End Sub
128
129 Private Sub Commends_Cick()
130 On Error GoTo Err. Commands_Cick
1310 Dim atDocharma As String
132 Dim atDocharma As String
133 "Close the current form
134 DoCmd.Close
137 "Open specified form
138 atDocharma - "ImmSchoolfoPropartyMeint"
139 DoCmd.Close
137 "Open specified form
139 DoCmd.Close
140 University of the Commands_Cick
141 Err_Commends_Cick
142 Est Sub
143
144 Err_Commends_Cick
145 MegBox Err.Deacorphon
146 Passume Est_Commands_Cick
146 Passume Est_Commands_Cick
147 End Sub
                                                                                                                                   om: frmMaintenanceSwitchboard
                                                                                                                                                         Code

Altribute VB_Name = "Form_IrmWeintenenceSwitchboerd"

Altribute VB_Creatable = "True

Altribute VB_Predeclaredd = True

Altribute VB_Exposed = False

Option_Compare Database

Option_Explicit
                                                                                                                                                         8 Private Sub binExit_Click()
9 On Error GoTo Err_binExit_Click
10
11
                                                                                                                                                         11
12 DoCmd.Close
13
14 Exit_btnExit_Cloic
15 Exit Sub
                                                                                                                                                         16
17 Err_bthExit_Click:
18 MagBox Err. Description
19 Resume Exit_bthExit_Click
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              147
148 End Sub
149
150 Private Sub Commend8_Click()
151 On Error GoTo Err_Commend8_Click
                                                                                                                                         22 End Sub
23
24 Private Sub Commendo, Cicir()
25 On Error GoTo Err. Commendo, Cicir
26
27 Dim stünckriberia As String
29
30 'Close the current form
30 DOC'nd Cotes
31 Cyber specified form
32 Cyber specified form
33 DOC'nd Cotes
34 DOC'nd Cotes
35 Cyber specified form
36 Cyber specified form
37 Cyber specified form
38 DOC'nd Cotes
38 DOC'nd Cotes
39 Cyber specified form
39 Cyber specified form
30 Cyber specified form
30 DOC'nd Cotes
30 Cyber specified form
30 Cyber specified form
30 Cyber specified form
31 DOC'nd Cotes
31 DOC'nd Cotes
32 Cyber specified form
35 DOC'nd Cotes
36 Cyber specified form
37 Cyber specified form
38 DOC'nd Cotes
39 DOC'nd Cotes
39 DOC'nd Cotes
30 DOC'nd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   155 On Error GoTo Err, Commande, Cack 155 On Error GoTo Err, Commande, Cack 155 On Error GoTo Err, Commande, Cack 155 Ones and Control of Contr
                                                                                                                                                                                                                           Close the current form
DoCrnd Close
Open specified form
StDocName - IrmSchoolToPEF_Maint
DoCrnd.OpenForm stDocName, . . stLinkCriterie
```

```
45 Resume Exit_btnAmptPlus_Click
46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165 Err_Commend8_Click
166 MsgBox Err.Description
167 Resume Ext_Commend8_Click
168
169 End Sub
47 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               47 End Sub
48
49
50 Private Sub bth/PeturnPrevious_Click()
51 On Error GoTo Err_bth/PeturnPrevious_Click
52
53
50 Dim stDrcName As String
55 Dim stDrcName As String
55 Dim stDrcName As String
56 Dim stDrcName As String
57 Close the current form
58 DoCmd Code
59 Composedified form
50 at Dockmame = "timProprocessing&ExecutionSwitchboard"
50 DoCmd Copenform stDockmame, ... stLinkCriteria
52
52 Ext_bth/PeturnPrevious_Click
                             Form: frmPEF
Code
                                                         ode
Attribute VB_Name = "Form_trmPEF"
Attribute VB_Creatable = True
Attribute VB_Predectaredid = True
Attribute VB_Predectaredid = True
Attribute VB_Epredectaredid = True
Option Compare Database
Option Explicit
                                       ......o Sub cmbPefFind_AfterUpdate()

9

10 Dim R As Recordsel

13 SR R = Na Recordsel

12 R FindFirst "PEF_PK] = " & Chr(34) & Mel(cmbPefFind] & Chr(34)

13 Ma Bockmark = R Bockmark

14 Mol[cmbPefFind] = Nal

15 Me PEF_PK SelFocus

16

17 E----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62
5 Est binRetumPrevious_Click
64 Est Sub
65
65
65 Err_binRetumPrevious_Click
67 Megidox Err.Description
68 Resume Ext_binRetumPrevious_Click
60
                                             17 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   69
71 End Sub
72
73 Phinate Sub Command4_Clck()
74 Application SelCpton "Confirm Action Queries", False
75 DoCmd. SelWarrings (False)
76 DoCmd. HursCut "DELETE" FROM AMPL_RESULT,"
77 Ampl. Result
78 Application. SelCpton "Confirm Action Queries", True
79
DoCmd. SetWarrings (True)
                                             18
19 Private Sub Form_BeforeUpdate(Cancel As Integer)
                                                         IPEF TimeStamp1 = Now
                                            22
23 End Sub
24
25 Private Sub Form_Current()
                                                            Dim strSQL As String
                                             28
29 'Update fre PEF List
30 stSQL = "SELECT DISTINCTROW (MARINE), IPEF FROM MARINE LEFT JOIN PEF
ON [MARINE], IPEF | = [PEF | IPEF | PEF | PEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               End Sub
                                            34
35 Private Sub PEF_PK_AfterUpdate()
                                                            Dim strSQL As String
                                                              'Updaio fre PEF List
stSQL = "SELECT DISTINCTROW (MARINE) (PEF) FROM MARINE LEFT JOIN PEF
(MARINE) (PEF) (PEF) (PEF) PKQWIERE ((PEF) (PEF) KI) Is NUMORDER BY
Mo.PEF PK fowSource = stSQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BS DECIMIC (Spain-orm subcensers),

SE Ett. Command7_Click:

SE Etr_Command7_Click:

Megidox Etr. Description

100 Resume Edit_Command7_Click

1102 End Sub
                                                          End Sub
Private Sub btnDelete_Click()
On Error GoTo Err_btnDelete_Click
                                                                 DoCmd.DoMenultern acFormBar, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenultern acFormBar, acEditMenu, 6, , acMenuVer70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Form: frmPreprocessing&ExecutionSwitchboard
                                                         Exit_binDolete_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ode Attribute VB_Name = "Form_fmPreproce
Attribute VB_Creatable = True
Attribute VB_Predoctaredid = True
Attribute VB_Exposed = False
Option Compare Database
Option Explicit
                                                         Err_binDelete_Click
MsgBox Err.Description
Resume Ext_binDelete_Click
                                                          End Sub
Private Sub binClose_Click()
On Error GoTo Err_binClose_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 Private Sub btnExt_Click()
9 On Error GoTo Err_btnExt_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9 Un Error Go la E
10
11
12 DoCmd.Close
13
                                                                   DoCmd.Close
DoCmd.OpenForm "frmMaintenanceSwitchboard"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13
14 Est_bihEst_Click
15 Est Sub
16
17 Err_bihEst_Click
18 MegBox Err_Description
19 Pesume Est_bihEst_Click
20
                                            65
66 Exit_binClose_Click:
67 Exit Sub
                                            68
69 Err_bhrClose_Click:
70 MsgBox Err.Description
71 Resurne Ext_bhrClose_Click
72
73 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pascaria Edicional Cock.

21 End Sub

22 End Sub

23 Prinate Sub binReclassification_Click()

25 On Error GoTo Err_binReclassification_Click

26

27 Dim s@bochame As String

28 Dim st.lnkCriteria As String

39 Cose the current form

30 Cose the current form

30 Copen specified form

40 Edit Subsequence - ImmReclassification*

45 Edit binNeclassification Click

45 Edit binNeclassification Click

46 Edit binNeclassification Click

47 Edit Subsequence Click

48 Edit Subsequence Click

48 Edit Subsequence Click

49 Edit Subsequence Click

49 Edit Subsequence Click

49 Edit Subsequence Click

40 Edit Subsequence Click

41 Edit Subsequence Click

41 Edit Subsequence Click

42 Edit Subsequence Click

42 Edit Subsequence Click

43 Edit Subsequence Click

44 Edit Subsequence Click

45 Edit Subsequence Click

45 Edit Subsequence Click

46 Edit Subsequence Click

47 Edit Subsequence Click

47 Edit Subsequence Click

48 Edit Subsequence 
                                                    : frmPrepareAndExecuteSolver
                                                         Attribute VB, Name = "Form_fmPrepareAndExecuteSoher
Attribute VB, Creatable = True
Attribute VB, Creatable = True
Attribute VB_Exposed = Faibe
Option Compare Database
Option Compare Database
                                                          Private Sub blnAMPL_Click()
On Error GoTo Err_blnAMPL_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35
6 Exit_btnReclassification_Click
37 Exit Sub
38
39 Err_btnReclassification_Click
40 MegRox Err_Description
41 Resume Exit_btnReclassification_Click
42
                                                                   AmplData
                                                                   Dim stAppName As String
                                                                   'stAppName = "C:\ToBeRidm\AmpMin\amp\min.exe'
stAppName = "C:\ToBeRidm\AmpMin\amp.bat"
Call Shell(stAppName, 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42
43
44 End Sub
45
46 Private Sub binScrubMarineData_Click()
47 On Error GoTo Err_binScrubMarineData_Click()
                                                                    "MsgBax "Enter into the command line: "include rdm.run"
                                            20
21 Exit binAMPL_Click:
22 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48
49 Dim stDocName As String
50 Dim stLinkCriteria As String
51
                                                          Err_binAMPL_Click:
MsgBox Err. Description
Resume Ext_binAMPL_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * Close the current form
DoCmd. Close
* Open specified form
stDocklams = "fmScrubMarine"
DoCmd. OpenForm stDocName, __stLinkCriteria
                                                              End Sub
                                                            Private Sub btnAmplPlus_Click()
On Error GoTo Err_btnAmplPlus_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59 Ext Sur/
60 61 Err_bthScrubMarineData_Click:
62 MegBox Err.Description
63 Resume Ext[_bthScrubMarineData_Click]
                                                                   Dim stAppName As String
                                                                 stAppName = "C:\AMPLPLUS\AMPLPLUS.EXE rdm.amp"
Call Shel(stAppName, 1)
                                            38 Call Swan.
39
40 Exit binAmpiPlus_Click:
41 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Private Sub btnSpecialAssignment_Click()
On Error GoTo Err_btnSpecialAssignment_Click
                                             42
43 Err_btnAmplPlus_Click:
44 MsgBax Err.Description
```

```
55 DoCmd. Obee
56 'Open specified form
57 stDocName = "IrmNeintennanceSwitchboard"
50 DoCmd.Openform stDocName, ... stLinkCriteria
39
40 Exit Command2, Click
41 Exit Sub
42 Err. Command2, Click
44 MegBox Err. Description
45 Pessume Exit_Command2_Click
46
47 End Sub
                                                                                                                                                                Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1958 | 1958 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 1959 | 19
Close the current form DoCmd.Close Copen specified form StDochare - ImSpecialAssignment DoCmd.OpenForm stDochare . . . stLinkCriteria
                                                                                                                                                            Exit_binSpecialAssignment_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Heaume Ext, Command, Cit.

Find Sub Commend4, Cit.

Phinate Sub Commend4, Cit.

Finate Sub Commend4, Cit.

Finate Sub Commend4, Cit.

Finate Sub Commend4, Sub Commend4, Sub Commend4, Sub Commend5

Dim stlinkCriteria As String

Dim stlinkCriteria As String

Commend4, Close

Sub Commend4, Close

DoCmd. Close

D
                                                                                                                                                         Err_bthSpecialAssignment_Click:
MagBox Err.Description
Resume Erit_bthSpecialAssignment_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Private Sub Command4_Click()
On Error GoTo Err_Command4_Click
                                                                                                       85
86
87
87
88 End Sub
99
99 Private Sub Command2_Click()
91 On Error GoTo Err_Command2_Click
91 On Error GoTo Err_Command2_Click
90 Dism Schockame As String
94
95 Dism Schockame As String
96
96 "Coses the current form
97
98 "Open specified form
98 "Open specified form
99 "Subcolkame as Thomas Schockat Penalty And Fir'
100 DoCnd. Open form stDockame, __, stLinkCriteria
101
102 Ext_Command2_Click
103 Ext Sub
105 Err_Command2_Click
106 Err_Command2_Click
107 Private Sub Command4_Click()
111
112 Application_SelOption "Confirm Action Queries", Fa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  **Close the current form
DoCmt Close
**Open specified form
StDochlarn = "IrrnPreprocessing&ExecutionSwitchboard"
DoCmt OpenForm stDochlarns, , stLinkCriteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 Ext sub 63
63 Er_Command4_Click:
64 MegBox Err.Description
65 Resume Ext_Command4_Click
66 67 End Sub Command6_Click()
69 On Error GoTo Err_Command6_Click
70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    68 Private Sub Commands, Cick()
69 On Error Golfo Err, Commands, Cick
70
71 Dim stDochame As String
72 Dim stLintCohena As String
73 Doctor Close
74 'Cosee the current form
75 DoCtor Close
75 DoCtor Close
76 'Open specified form
77 stDochame - "EmAnatyrofessat"
78 DoCtor Close
79 Doctor Close
80 Estl. Commands, Cick:
81 Err. Commands, Cick:
82 Err. Commands, Cick:
83 Err. Commands, Cick:
84 MagGos Err. Decemption
85 Ferd Sub
86 Private Sub Commands, Cick()
87 End Sub
87 Private Sub Commands, Cick()
88 Private Sub Commands, Cick()
89 On Error Golfo Err. Commands, Cick()
80 On Error Golfo Err. Commands, Cick()
80 Dim stDochame As String
80 Dim stDochame As String
90 Dim stDochame As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *Close the current form
DoCmd.Close
*Open specified form
stDocNamo = *IrmAnalyzoResult*
DoCmd.OpenForm stDocName, . , stLinkCriteria
                                                                                                           111
12 Application_SetOption *Confirm Action Queries*, False
13 DoCmd_SetWarrings (False)
14 DoCmd_RinSQL_TBELETE* FROM AMPL_RESULT;
15 Ampl.Result
16 Application_SetOption *Confirm Action Queries*, True
17 DoCmd_SetWarrings (True)
18
                                                                                                       117
DoCmd.SetWarnings (True)
118
119
119
120 End Sub
121
Private Sub Commands_Cickt)
123 Private Sub Commands_Cickt)
124 Private Sub Commands_Cickt)
125 Private Sub Commands_Cickt
125 Private Sub Commands_Cickt
126 Doc Sub Cockerne As Shing
127
128 **Cose the current form
127
129 **Cose the current form
120 DoCmd.Cicke
130 **Copen specified form
130 **Copen specified form
130 DoCmd.Cicke
131 **Eul.Commands_Cickt
132 **Eul.Commands_Cickt
133 **Megistor Enr.Decomption
140 **Private Sub Commands_Cickt
141 **Eul.Cickt
142 **Ind.Cickt
143 **Private Sub Commands_Cickt
144 **Eul.Cickt
145 **Private Sub Commands_Cickt
146 **Private Sub Commands_Cickt
147 **Eul.Cickt
148 **Private Sub Commands_Cickt
149 **Private Sub Commands_Cickt
149 **Private Sub Commands_Cickt
149 **Private Sub Commands_Cickt
140 **Private Sub Commands_Cickt
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140 **Private Sub Commands_Cickt
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140 **Private Sub Commands_Cickt
140 **Private Sub Commands
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91 Dim stDocName As String
92 Dim stLinkCriteria As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dim stuntCriteria As String

'Close the current form

DoCnd.Close

'Open specified form

Shockerse - ImmSererabReport

DoCnd.Coperiorms Docherne., stLinkCriteria

100 Est. Commands.Clock

DoCnd.Coperiorms Docherne.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101 Est Sub
102
103 Err, Commande, Cick
103 Err, Commande, Cick
106 Pissume Est, Commande, Cick
107 Erd Sub
108 Private Sub binEst, Clock
108 On Error Goto Err, binEst, Cick
110
111
112 DoCmd, Close
115 Est Sub Cick
116 Est Sub
117 Err, binEst, Cick
117 Err, binEst, Cick
118 MayBax Err, Description
119 Resume Est, binEst, Cick
121 End Sub
121 End Sub
                                                                                                               142
143 Private Sub Command8_Click()
144 On Error GoTe Err_Command8_Click
145
                                                                                                       157
158 Err_Command8_Click:
159 MagBox Err_Description
160 Resume Exit_Command8_Click
161
162 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Form: frmReclassification
Code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ode
Altribute VB, Name = "Form_ImmPeclassification"
Altribute VB, Croatable = True
Altribute VB, Prodecteredid = True
Altribute VB, Epopeed = False
Option Compare Database
Option Compare Database
Option Explicit
                                                                        Form: frmPDM_Main_Switchboard
                                                                                                                                  ode
Afrikude VB, Name = "Form_fmRDM_Main_Switchboard"
Afrikude VB, Creatable = True
Afrikude VB, Creatable = True
Afrikude VB, Exposed = False
Option Compres Database
Option Compres Database
Prinate Sub Command0_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 Option Explicit
7 8 Private Sub ombClassNamber_AlterUpdate()
9 10 Im strCorvert As String
10 Ibm strCorvert As String
11 Me. bifReportDate = Me. cmbClassNamber, Column(2)
13 Me. bifReportDate = Me. cmbClassNamber, Column(4)
15 'Convert the fiscal year to a two digit number for PDS File
15 'Convert the fiscal year to a two digit number for PDS File
15 'StrCorvert = OSIP(Me.mchClassNamber, Column(3))
17 strCorvert = OSIP(Me.mchClassNamber, Column(3))
18 bitCorvert = Fight (strCorvert, 2)
19 Me. bitAssignmentType = "R"
22 End Sub
23 Private Sub cmbClassNamber_Enter()
25 Ibm strSCL As String
27 'This query finds the class numbers', report dates and class convening dates associated with the chosen school
                                                                                                                                     On Error GoTo Err_Command0_Click
                                                                                                                                                         Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                     Close the current form DoCmd. Close Common Section Common Section form StDockhame - "Immimport/ExportSwitchboerd" DoCmd. OpenForm stDockhame - stLinkCriteria
                                                                                                       20 Exit_Command0_Click:
21 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28 Dim strSCL As Shing
29 This cap rifes for clase numbers, report dates and class
convening dates associated with the chosen school
20 stSCL = SELECT ON, EDITANCT Classification Pr. PK
BINL, EXTRACT Classification Classification Pr. PK
BINL, EXTRACT Classification Pr. PK
BINL, EXTRACT Classification Pr. PK
BINL, EXTRACT Classification PK
BINL, EXTRACT Classification PK
SCH, TGT MGS. TO Consensation PK, PK
SCH, TGT MGS. TO Consensation PK
SCH, TGT MGS. TO Consensation PK
FORTH THE Classification PK
FORTH THE Classification PK
FORTH THE Classification PK
MGC. TGT MGS. THE CLASSIFICATION
MGC. TGT MGG. TGT MGC. THE CLASSIFICATION
MGC. TGT MGG. TG
                                                                                                                                         Err_Command0_Click

MsgBox Err.Description

Resume Exit_Command0_Click
                                                                                                                                     Dim stDocName As String
Dim stLinkCriteria As String
                                                                                                                                                 *Close the current form
```

```
33
4 Private Sub-embCourseNumber_AlterUpdate()
5
5
6 Me bBANDS = MetembCourseNumber.Colum
37
7
38 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             52 Me.txT
53
54
55 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Me.bdTotalPercentFil = Int((Me.bdTotalAssigned / Me.bdTotalQuota)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 10 2016 1
                                                                   Me.bdAMOS = MelcmbCourseNumber.Column(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Form: frmSchools
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mrt frachcoss
Code

1 Atribute VB, Name = "Form JrmSchoots"
2 Atribute VB, Creatable = True
3 Atribute VB, Predictared = True
4 Atribute VB, Exposed = False
5 Option Compare Database
6 Option Compare Database
7
                                               Private Sub AMOS_PK_AfterUpdate()
                                               47 Private Sub cmbSSN Enter()
                                                                 Dim strSQL As String
                                                                        stSQL = "SELECT DISTINCTROW MARINE, SSN_PK, MARINE, SQI,
INE, Gradbate FROM MARINE LEFT JOIN ASSIGNMENT ON MARINE, SSN_PK =
GWMENT, SSN_FK WHERE (((ASSIGNMENT, SSN_FK) is Null));"
Me.ombSSV RowSource = stSQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'Update the drop down list for AMOS
static - 'SELECT TargotAIOS, PK FROM
yUstStraued LargotAIOS PK FROM
Ma.MAS, PK ReviSource - stb SOL
Ma.MAS, PK ReviSource - stb SOL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         onylust/based
15 Me.AM
16 Me.atfa
17 Me.atfa
18 'Update
19 Formell
20 Set do1
23 Set roc
24 Formall
25 Formell
25 Set do1
26 Set do1
27 set SoL
28 Set do1
29 Set roc
30 Me.MCC
31 'Update
33 Formell
34 End Sub
                                                              End Sub
                                            *Update the AMOS_FK in the child relation SCH_TGT_MCS
Forms!frmSchools!subfrmSchools!AMOS_FK.Value = Me.AMOS_PK.Value
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Din R As Recorded Sale R - Ma Recorded Sal R - Ms Recorded Clone R Findfirst "ISSN-FR" = "& Chr(34) & Mel(cmbSSN-Find] & Chr(34) Ms Recommit - R Bootmark Mel(cmbSSN-Find) = Nal Ms cmbSSN-Saf-Fous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'Update the TargetMOS_FK in the child relation SCH_TGT_MOS
Set dbt = CurrentDK()
Set re: = 61.7pperPeccrete(#sSCL_dbOperSnapshof)
FormalfrmSchoolsfaubtrmSchoolsfTargetMOS_FK_Value = recfTargetMOS_FK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Input the correct MCC value for the selected course 
et SQL = "SQLECT MCC FROM TARGET_MOS WHERE TCourseNumber_PK = " & 
SQLeuneNumbe_PK Value & " 
Set do! = CurrentDk() 
Set rec = db() CpenRecordet(strSQL_dbCpenSnapshot) 
Me.MCC.Value = rectMCC
                                                               Private Sub Delete_Click()
On Error GoTo Err_Delete_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'Update the TCourseNumber_FK in the child relation SCH_TGT_MCS
FormettmSchoolstsubtrmSchoolstTCourseNumber_FK.Value =
.SCourseNumber_PK.Value
                                                                      DoCmd.DoMenultern acFormBer, acEdiMenu, 8, , acMenuVer70
DoCmd.DoMenultern acFormBer, acEdiMenu, 6, , acMenuVer70
                                                                   Exit_Delete_Click
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Private Sub btnClear_Click()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Dim db1 As Database
Dim strSQL As String
Dim i As Integer
Dim rec As Recordset
                                                                 Private Sub Close_Click()
On Error GoTo Err_Close_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Set do! = CurrentDk()

46

47 stSCL = "SELECT DISTINCTINOW TARGET_MOS.TCcurrenNamber_PK FROM TARGET_MOS.TexpeNOS_PK = NOW TARGET_MOS.TexpeNOS_PK = NOW TARGET_MOS.TexpeNOS_PK = NOW TARGET_MOS.TccurrenNamber_PK = SCH_TGT_MOS.TccurrenNamber_PK = SCH_TGT_MOS.TccurrenNamber_PK = NOW TARGET_MOS.TccurrenNamber_PK = NOW TARGET_MOS.Tccurr
                                                                      Dim stDocName As String
Dim stLinkCriteria As String
                                            87 Dim stLinkCriteri.

88 'Close current for

90 DcCmd.Coxe

91 'Open specified

93 stDocName - 'The

94 DoCmd.OpenFor

95 Exit_Close_Click

97 Exit Sub
                                                                   * Close current form
DoCmd.Close
                                                                   *Open specified form
stDocNerne = "IrmPreprocessing&ExecutionSwitchboard"
DoCmd.OpenForm stDocNerne, , , stLinkCriteria
                                               98
99 Err_Close_Click
100 MegBox Err.Description
101 Resume Exit_Close_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             56 If rec. RecordCount > 0 Thon
57 For i = 1 for rec. RecordCount
58 'Disables the action query confirmation message
49 Application. SetQbron 'Confirm Action Queries', False
50 DoCmt. SetWarrings (False)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Form: frmSchoolAssignments
Code
                                                            ode
Atribute V6, Name e "Form, IrmSchoolAssignmente"
Atribute V6, Creatable = True
Atribute V6, Creatable = True
Atribute V6, Prodeclared of True
Atribute V6, Exposed = False
Cytin Compres Database
Cytin Create Database
Private Sub Come, Cick(f)
On Error Gol'o Err_Close_Clck
                                               Dim stDocName As String
Dim stLinkCriteria As String
Dim db1 As Database
                                                                      Set db1 = CurrentOb()
                                                                        'Close the current form 
DoCmC, Close 'Cypen specified form 
'Cypen specified form 
stDochlame = 'frmAnalyzeResul'' 
DoCmC, Open Form stDochlame, . , stLinkCritoria 
Formst (ImmAnalyzeResult SedFocus
                                                                 Exit_Close_Click
Exit Sub
                                                            Err_Close_Click:
MagBox Err.Description
Resume Exit_Close_Click
                                                               Private Sub Form_Current()
                                                                      Dim strSQL As String
Dim rec As Recordset
Dim db1 As Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              91 cmbPenaltyView = "1x"
                                                                      Set rib1 = CurrentDN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94
95 Private Sub cmbCourseNumberFind_AfterUpdate()
96
97 DmR As Recordset
98 Soft R- Ma RecordsetCore
98 Soft R- Ma RecordsetCore
98 REIndiffer ($SCourseNumber_PK) = * & Chr(34) & Mel[cmbCourseNumber Recordset
100 Mal.Booten* - Recordset
101 Mal.Booten* - Recordset
102 Mal.BootensetAmberFind - Mal.
103 Mal.BootensetAmberFind - Mal.
104 Mal.BootensetAmber_PK.Soffocia
105 Mal.BootensetAmber_PK.Soffocia
106 Mal.BootensetAmber_PK.Soffocia
107 Mal.BootensetAmber_PK.Soffocia
108 Mal.BootensetAmber_PK.Soffocia
108 Mal.BootensetAmber_PK.Soffocia
109 Mal.BootensetAmber_PK.Soffocia
109 Mal.BootensetAmber_PK.Soffocia
                                                                      "Calculates the total quota, and number of schools for the run, setSQL = "SELECT Surr(SurrO(Queta) AS TotalQueta, Count(SurrO(Queta) AS totalQueta, Count(SurrO(Queta) AS totalQueta FROM onyTotalQueta ForPun; "Self rec = doi.10.poin/Securioside/SCA, disCipen/Snapshof) Me. EXCISEQUETA = recETCISEQUETA.

Me. EXCISEQUETA = recETCISEQUETA.
                                                                          *Calculations the total number of assignments for the run.

st SCL = SELECT Surfi CountOffsical flow_PN) AS TotalAssigned FROM

AGLOsalFaleCoff Palecordset(st SCL, dbCpenSrapshot)

Me.bt/TotalAssigned = mc1TotalAssigned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                104 End Sub
105
105 Private Sub cmbPenaltyView_AlterUpdate()
107
```

```
Select Case cmbPenabyView
Case 14x*

bifferabyFactor = 4 * 24
Case 13x*

bifferabyFactor = 3 * 24
Case 14x*

bifferabyFactor = 2 * 24
Case 11x*

bifferabyFactor = 1 * 24
Case 11x*

bifferabyFactor = 1 * 24
Case 11/24
Case 11/23

case 11/23

case 11/23

case 11/24

case 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     222 Next write
223 Lydain the Terget NOS Ist
224 Lydain the Terget NOS Ist
225 Lydain the Terget NOS Ist
226 Lydain the Terget NOS Ist
227 Lydain the Terget NOS Ist
228 Lydain the Terget NOS Ist
228 Lydain the Terget NOS Lydain the Terget NOS
*Save the update DoCmd.DoNenuttern acFormBar, acFecordsMenu, acSaveRecord, .
                                                                                               129
129 Private Sub Command14_Click()
130 Private Sub Command14_Click()
131 Dim stSCL As String
132 Dim stSCL As String
133 Dim stSCL As String
134 Disables the actor query confirmation message
135 Application SeOption Confirm Action Queries*, False
136 DoCmd. SerVisings (False)
137
138 DoCmd. RunSCL TINSERT INTO YARGET_MOS ( Tocurenhamber_PK,
TargelMOS, PK, MCC) SELECT DISTINCT BMJ_EXTRACT.Coursenhamber_PK,
BMJ_EXTRACT. regelMOS, PK, BMJ_EXTRACT.MOS FROM BMJ_EXTRACT.*
140 Frables the action query confirmation message
141 Application, SeOption Tocntirm Action Queries*, True
142 DoCmd. SetWarming (True)
143 Update the Course Namber List
145 strSCL = SELECT DISTINCTIRAW TARGET_MOS TrousseNamber_PK FROM
TARGET_MOS LEET JOHN SOFT (OT) MCS ON TARGET_MOS TrappelMOS_PK =
SCH_TOT_MOS_EXTRACT.*
SCH_TOT_MOS_EXTRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
241 Private Sub Form_BeforeUpdate(Cancel As Integer)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 Private Sub Form_Betoreupuste_usersesses
242
243 [Sch_TimeStamp] = Now
244
245 [Sch_TimeStamp] = Now
245 [First Sub
246 [Dimits Sub Form_Current)
249
250 "Update the Powerfall Target MOS ist
250 "Update the Powerfall Target MOS ist
251 stb50L" = SELECT TargetMOS_PK FROM
cyrulsthrusedTargetMOSFOrmTARGET_MOS WHERE TOourseNumber_PK = " &
252 MisstTargetMOSF, PK RHOScure = stb50L"
253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  290 "Update the Potential Target MOS list
201 str SCL "SELECT TergetMOS IN FEOM
YOURSHAMED appellOSFORTHAREE_MOS WHERE TOOUTSANamber_PK = " &
202 Mis Mill argeMOS_FR Enviource = strSCL
203 Mis Mill argeMOS_FR Enviource = strSCL
204 "Update the Target MOS List
205 strSCL - "SELECT Tile pankOS, PK (FROM ISCH TOTL MOS) WHERE
ESCOLARSHAMED, FK) = " & Nex Social Selection of the Target MOS FR
206 Mis List TargetMOS_FK, Hatory, PowSource = strSCL
207 "Update the Course Namber List
209 strSCL - "SELECT DISTINCTION TARGET_MOS. TOOLARSHAMED PK FROM
TARGET_MOS LEFT JOIN SCH TIST, JMCS ON TARGET_MOS. TargetMOS_FK -
205 Mill List TargetMOS_FK, Most TARGET_MOS. ToolarshAmber_PK FROM
TARGET_MOS LEFT JOIN SCH TIST, JMCS ON TARGET_MOS. TargetMOS_FK -
205 Mill List TargetMOS_FK AND TARGET_MOS. ToolarshAmber_PK -
206 Mill SCOLARSHAMED FT TO TARGET_MOS. ToolarshAmber_PK -
207 Mill SCOLARSHAMED FT TO TARGET_MOS. ToolarshAmber_PK -
208 Mill SCALARSHAMED FT TOOLARSHAMED FT TO TARGET MOS.
201 Il IsNABIMAS COLARSHAMED FT TOOLARSHAMED FT TOOLARSHA
                                                                                   146 Me.SC
147
148 End Sub
149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          333 *DoCrnd.OpenQuery *gryDeletesCirtuAucciney
334
335 *Enables the action query confirmation message
```

```
336 Application, SetOpsion "Confirm Action Queries", True
337
338 DeCred DeMenuttern er FormBar, acEdiffenu, 8., acMenuVer70
340
340
340
341 Eait_DehnDeisler_Cick
342 Esit Sub
343
344 Err_bhDeisler_Cick
343 MegDox En Description
346 Resurve Est_LibrDeisler_Cick
349 Private Sub binClose_Cick)
340 End Sub
340 Private Sub binClose_Cick)
350 On Error GoTo Err_beinClose_Cick
351
352
353 DeCred Close
354 DeCond OpenForm "IrmNaintenanceSwitchboerd"
355
355 Err_bhrClose_Cick
350 Est_Sub Close_Cick
351
355 Err_bhrClose_Cick
355 Err_bhrClose_Cick
356 Est Sub
356 Est Sub Close
357
356 Est Sub Close
357
356 Est Sub Close
358 Err_bhrClose_Cick
359 Err_brClose_Cick
350 Est Sub Close
350 Est Sub Close
351
352 Est Sub Close
353 Err_bhrClose_Cick
355 Err_bhrClose_Cick
356 Est Sub Close
357
358 Err_bhrClose_Cick
358 Err_bhrClose_Cick
359
358 Err_bhrClose_Cick
350 Est Sub Close
357
358 Err_bhrClose_Cick
358 Err_bhrClose_Cick
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358 Err_bhrClose_Cick
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358 Err_bhrClose_Cick
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358 Err_bhrClose_Cick
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358 Err_bhrClose_Cick
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358 Err_bhrClose_Cick
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104 Phales Sub RightMrrow, Click()
105 Dim frm As Form, cf As Control
106 Dim weithen A Variant, ind As Integer
107 Dim stSCL. As String
108

109 This code Deals the selected Turget MCS's and its asso-
entires from the SCC_TCT_USCS table
109 Set of a furnitional selected Turget MCS's and its asso-
entires the SCC_TCT_USCS table
111 Set of a furnitional selected PEFF Maint
111 Set of a furnitional selected PEFF
112 For Each variation in cit, learn-Scote del
113 For int = 0 To ct_ColumnCount - 1
114

115 This puts the wake found in the first box into a text to
116 This puts the wake found in the first box into a text to
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sing it readable by the query FormalfrmSchoolToPEF_MaintPEFValue.Value = ctl.Column(int),
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120 Doubles the record associated with the specified value from the SCH_TGT_MCG labe.

121 Enables the action query confirmation message 125 Application SchOption "Confirm Action Queries", True 126 Application SchOption "Confirm Action Queries", True 127 Next with 128 Next with 128 Next with 129 Application SchOption "Confirm Action Queries", True 129 Application SchOption 129 Application 129 Application
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Atribute VR_Name - "Form_ImSchoolfoPEF_Main"
Atribute VR_Creatable - True
Atribute VR_Creatable - True
Atribute VR_Exposed - False
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Option Expised
                                                                                                                                                                         Private Sub binClose_Click()
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22 Pint Sub 22 Pinter Sub binDelete_Cisck;
23 Pinter Sub binDelete_Cisck;
24 Pinter Sub binDelete_Cisck;
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1 Affibute VB_Name = Form_fmSchoolToPropertyMainf

2 Affibute VB_Creatable = True

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5 Opton Compare Database

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8 Private Sub btnClose_Click()
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12 DoCmd.Close .
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MagBox Err.Description
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15 Exit binClose_Click:
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18 Err_binClose_Click:
19 MagBox Err.Description
20 Resume Exit_binClose_Click
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29 DeCmst Doklenstern scFormBar, acEddelenu, 8., acklenut/er/0
30 DoCmst Doklenstern acFormBar, acEddelenu, 8., acklenut/er/0
31 Est (Err. berüheles, Cick)
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6 Indicate Sub Sub Form, Carrent, Carrent

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6 Dim form for Form, cl As Control

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41 Private Sub binLevelO_Click()
42 On Error GoTo Err_binLevelO_Click
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42 On Error GoTo Err, betweeb, Clack
43 Dim ImplecordNum As Long
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46 In the CurrentPecord
47 IngRecordNum As Long
48 DoChat Close
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50 DoChat Close
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51 DoChat ColorPecord as DataForm, "ImSchatToPropt.weitMaint", acGoTo, DoChat ColorPecord as DataForm, "ImSchatToPropt.weitMaint,", acGoTo, DoChat ColorPecord as DataForm, "ImSchatToPropt.weitMaint,", acGoTo, DoChat ColorPecord as DataForm, "ImSchatToPropt.weitMaintChoarnLaws I - 0
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70 On Error GoTo Err_btnLevel1_Click
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Dim strSQL As String
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DoCmd.CoToRecord acDataForm, "IrmSchoolToPropt.evelMaint", acGoTo,
cordNum
Forms!!rmSchoolToPropt.evelMaint(ChoeonLevel = 1
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175 End Sub
177 Finale Sub binLevel5_Click()
177 Finale Sub binLevel5_Click()
178 On Error GoTo Err_binLevel5_Click
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180 Dirn IngRecordNum As Long
181 Dirn setSCL As String
182 binsetSCL
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8 'Ududa Ne selected property fat
84 stSQL = "SELECT [PPoportyName_RK] FROM FLND_SCH_PROP WHERE
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DOCM Close Form "ImmSchoolToPropLeveMeint"

DOCM Close Form "ImmSchoolToPropLeveMeint"

DOCM Close Form "ImmSchoolToPropLeveMeint", acGoTo, legitecorNum

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SE FormstillmSchoolToPropLeveMeint(ChosenLevel = 5

SE STATE SELECT [FropertyName_RK] FROM FIND_SCH_PROP WHERE

SCAURANTHURE FK = "8 FORMSTIPMSCHOOLTOPROPLEVEMENT FK Value & "8 And AMOS_FK = "8 FORMSTIPMSCHOOLTOPROPLEVEMENT FK Value & "8 And Level = 8 FormstillmSchoolToPropLeveMeintAMOS_PK Value & "8 And Level = 8 FormstillmSchoolToPropLeveMeintAMOS_FK Value & "8 Enderstill & State S
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And Liver 6. & Formstimisched Project weeklein AMSS, PK. Value 8." 6
S Formstimisched Project weeklein Amsterdam State 1. Sept. 
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204 Private Sub binLevel6_Click()
205 On Error GoTo Err_binLevel6_Click
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215 DoCnd. ColfoRecord acDasiform, 'IrmSchoolToPropLeveMaint', acGoTo, organization of the ColfoRecord acDasiform, 'IrmSchoolToPropLeveMaint', acGoTo, organization of the ColfoRecord acDasiform, 'IrmSchoolToPropLeveMaint', acGoTo, organization of the ColfoRecord acDasiform, 'Rick Error of the ColfoRecord acDasiform,' Rick Error of the ColfoRec
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IT Err, bhl.swelz, Click:
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119 Resurne Est, bhl.swelz, Click
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121 End Sub
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123 Prinato Sub bhl.swel3, Click ()
124 On Error CoTo Err_bhl.swel3, Click
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222 Exit_btnLevel6_Click:
223 Exit Sub
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229 End Sub
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232 Privete Sub cmbCourseNamberFind_AlterUpdate()
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238 Representation
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239 R FindFind 15CourseNamber, PN( = * & Chr(S4) + MellombCourseNamber Find) & Chr(S4)
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240
241 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dim R As Recorded State 
Set R = Me Recorded Clane 
RF (indFirst "ScouseAharbor_PK) = " & Chr(34) & 
cmbCourseAharborFind] & Chr(34) 
Me Bodomsk - R Bodomsk 
Mel (indCourseAharbor_FK) & SFOcus 
Mel SCourseAharbor_FK & SFOcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 End Sub
242
242 Printed Sub Form Current()
244 Dim stSCL, strinput, strinput() As String
245 Dim infl. seel As Integer
246 Dim stSCL, strinput, strinput() As String
245 Dim infl. seel As Integer
247 (John House) As Integer
248 (John House) As Integer
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253 (John House) As Integer
254 (John House) As Integer
255 (John House) As Integer
255 (John House) As Integer
                                                                                                                                                                                 148 End Sub
148 End Sub
148 End Sub birth-week (-Sickl)
151 On Error Cori or In, brith-week (-Sickl)
152 Dome Stock A Shing
153 Dome Stock A Shing
155 Ingle-corotham = Me OurrentPeccord
157
158 Do-Cord Close
159 Dome Cori or IrmSchoolToPropt.weekkaint
150 Dome Cori of Ore-Form "IrmSchoolToPropt.weekkaint"
150 Dome Cori of Ore-Form "IrmSchoolToPropt.weekkaint"
151 Dome Cori of Ore-Form "IrmSchoolToPropt.weekkaint"
152 FormstirmSchoolToPropt.weekkaintChosert.weel = 4
153 Instance Stock A Shing
153 Instance Stock A Shing
154 Update the selected property list
155 Instance Stock A Shing
155 Instance Stock A Shing
156 Instance Stock A Shing
157 Instance Stock A Shing
158 Instance Stock A Shing
158 Instance Stock A Shing
159 Instance Stock A Shing
150 Instance Stock A Shing
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256
257 'Update fro Level 2 lat.
257 'Update fro Level 2 lat.
259 stroit - 2
259 stroit - 2
259 stroit - 2
259 stroit - 2
259 stroit - 3
250 stroit -
```

```
FRCM grythionAlProperty LEFT JOIN grythionPropertyByLavel CN (grythionAlProperty), IPPropertyName, PIKI av (grythionAlPropertyByLavel), IPPropertyName, FIKI WHERE ((grythionPropertyByLavel), IPPropertyName, FIKI IN NAI)."
75 Me Listaenthussed (Novicure a #8750.)
                                                                                            & "" & " And Level = " & intLevel & ""
260 Me.lstLevel2.RowSource = strSQL
                                                                                         251
262 inflamet = 3
263 at SOL = "SELECT [PPropertyName_RQ] FROM FUND_SCH_PROP WHERE
263 at SOL = "SELECT [PPropertyName_RQ] FROM FUND_SCH_PROP WHERE
5 CourseNamble, Fix = "8 Ma SCourseNamble; PK Value 6 " 8" 4" And AMOS_FK a
"8 Ma AMOS_PK Value 6 " 8" And Level = "8 inflamet 8" "8 " UNION
5ELECT [IP-propryName_RQ] FROM LOQ_SCH_PROP WHERE 5 COURSeNamble_FK = "8
Ma SCourseNamble_FK Value 6 "" 8" And AMOS_FK = "8 Ma AMOS_PK Value
8 " 8 " And Level = "8 inflamet 8" "8" And AMOS_FK = "8 Ma AMOS_PK Value
264 Me attawati RowCourse = at SCL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      75 Mais Lawellhussed RowGource - attSCU.
75 Tybids the selected properly plant | RTG | FROM FLIND, SCH, PROP WHERE SCOURSMANDER, FK - & Ma SCOL and SELECT (PROperlyName, PK, Vialue & T. & And AMOS, FK - & Lind 
   3126
3127
3128
3129
                                                                                SELECT [LPropertyName_FK] FROM LOG_SCH_PROV_PREES SCGERNAMORS_FK = " & Ma_SCGERNAMORS_FK = " & Ma_SCGERNAMORS FK = " & MA_SCGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3130
3131
3132
3133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78 Ms.lstLswel0.RowSource = strSQL
79
80 End Sub
81
   3134
3135
3136
3137
3138
3139
3140
3141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Private Sub LeftArrow_Cick()
Dim trm As Form, ctl As Control
Dim veritm As Variant, intl As Integer
Dim strSCL As String
   3142
3143
3144
3145
3146
3147
3148
3150
3150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * Ensures the current record is save to the SCHOOL table DoCmd, DoMenuitem acFormBer, acRecordsMenu, acSaveRe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'This code enters the selected Target MOS's into the SCH_TGT_MOS 
Set time - FormstirmSchooftPropLeveRetert 
Set of a immisst inselfurased 
For Each werfan in cit termsSelected 
For Ifa + O to ColumnCount - 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96
97 This puts the value found in the list box into a text box making it readable by the query 98 FormatirmSchootToPropLevelMeintTorgetValue.Value = ct.Column(nid, werten)
   3152
3153
3154
3155
3156
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3158
3158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Transition of the control of the con
ose
Attitute VB, Neme = "Form_tmsChoofToPropLeveReint"
Attitute VB, Creatable = True
Attitute VB, Creatable = True
Attitute VB, Exposed = Fabe
Option Comprer Database
Option Expirit
                                                                                      7
8 Private Sub binClose_Click()
9 On Error GoTo Err_binClose_Click
10
11 Dim IngRecordNum As Long
12
13 IngRecordNum = Me.CurrentRecord
                                                                                                                         DoCmd.OpenForm "frmSchoolToPropertyMeint"
DoCmd.GoToRecord acDataForm, "frmSchoolToPropertyMeint", acGoTo,
RecordNum
                                                                                                                   Exit_binClose_Click:
Exit Sub
                                                                                         22 Err_btnClose_Click:
23 Err_btnClose_Click:
24 MagBox Err.Description
25 Resume Exit_btnClose_Click:
26 27 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120 Me.fatLavel0.RowSource = strSQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         122 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   123
124 Private Sub RightArrow_Click()
125 Dim tim As Form, cli As Control
126 Dim wartim As Varient, intl As Integer
127 Dim strSQL As String
128
129 This code Delets the selected Terget
                                                                                                                      Private Sub bthDelote_Click()
On Error GoTo Err_bthDelote_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   128
This code Delets he selected Target MCS's and its associated entries from the SCH_TIST_MCS table 100 Set time FormetimeSchoolTePropLeveMeint 131 Set of a firmitat_well 131 Set of a firmitat_well 131 Set of a firmitat_well 131 For fach vertin in cit itemsSelected 133 For find a To cit ColumnCount - 1
                                                                                                                         DoCmd.DoMenultem scFormBer, scEditMenu, 8, , acMenuVer70
DoCmd.DoMenultem scFormBer, scEditMenu, 6, , acMenuVer70
                                                                                                                      Exit_binDalata_Click:
Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   134 'This puts the value found in the list box into a text box mating it readable by the quary 135 FormaltimsChoof/OPropLeveMeIntTargetValue.Value w ct.Column(int, werlim)
Err_btnDelete_Click;
MsgBox Err.Description
Resume Exit_btnDelete_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ct.Courre(int), wettin)

20 Disables he action query confirmation message
21 Application Saloption Confirm Action Queries*, Faible
22 Deletes he record associated with the specified value from
23 The First Or LOG SCH_PROP table
24 Decord, OpenCuery ("ryplestat-Fund." SCH_PROP*
25 Decord, OpenCuery ("ryplestat-Fund." SCH_PROP*
26 Enables the action query confirmation message
26 Enables the action query confirmation message
27 Decord OpenCuery ("ryplestat-Fund." True
28 Decord OpenCuery ("ryplestat-Fund." True
29 Decord OpenCuery ("ryplestat-Fund." True
29 Decord OpenCuery ("ryplestat-Fund." True
20 Decord OpenCuery ("ryplestat-Fund." True
20 Decord OpenCuery ("ryplestat-Fund." True
20 Decord OpenCuery ("ryplestat-Fund." True
29 Decord OpenCuery ("ryplestat-Fund." True
20 Decord OpenCuery ("ryplestat-Fund
                                                                                                                      End Sub
                                                                                                                      Dim strSQL As String
                                                                                   51 Ma Istumethrused RoinGorce = stSQL
52 'Update the salected property list
53 stSQL = 'SELECT (PPropertyNeme_FK) FROM FUND_SCH_PROP WHERE
50 stSQL = 'SELECT (PPropertyNeme_FK) FROM FUND_SCH_PROP WHERE
50 standards FK = 5 Ma SCOurseNumber_PK Value 6 = 6 = 4 And AMOS_FK =
5 Ma AMOS_FK value 6 = 6 = 4 And Lanel = 7 & Ma Chosentumet Value 6
5 (Outself-Lister) (Update FK) FROM LOC_SCH_PROP WHERE
5 (Outself-Lister) FK Value 6 = 6 = 6 Ma Chosentumet Value 6
5 & Ma AMOS_FK Value 6 = 6 = 7 And Lanel = 7 & Ma Chosentumet Value 6
5 & Ma AMOS_FK Value 6 = 6 = 7 And Lanel = 7 & Ma Chosentumet Value 6
5 & Ma AMOS_FK Value 6 = 6 = 7 And Lanel = 7 & Ma Chosentumet Value 6
5 & Ma AMOS_FK Value 6 = 6 = 7 And Lanel = 7 & Ma Chosentumet Value 6
5 & Ma AMOS_FK Value 6 = 6 = 7 And Lanel = 7 & Ma Chosentumet Value 6
5 & Ma Chosentumet Value 7
5 & Ma AMOS_FK Value 6 = 7 & Ma Chosentumet Value 6
5 & Ma Chosentumet Value 7

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             151 Nact with:

152 |
153 | 'Uddate the potential property list'
154 | AlbOLE - SELECT DISTINCTROW [cyt/bionAlProperty],[FPropertyNerre_PK]
FFDM (cyt/bionAlProperty LEFT_JON cyt/bionPropertyDuteat ON
SyythonAlProperty),[FFrompthisme_PK] = WHERE
[(cyt/bionProperty),[FFrompthisme_PK] = No. WHERE
[(cyt/bionProperty),[FFrompthisme_PK] = No. Mol.
155 | Mol. Macade Jusace Prevolution = strOL
156 | 'Uddate the selected property latt
157 | strOL = SELECT [FPropertyName_PK] FFROM FUND, SCH_PROP WHERE
SCOLUMBANTON FK = & Mol. SCOLUMBANTON FK = & *And AMOS_FK =

* A MacAMOS_PK Value & *a **And Level = *s & Mol. ChosenLevel Value &

& * UMON SELECT [PropertyName_PK] FFROM LOG_SCH_PROP WHERE
SCOLUMBANTON FK = & Mol. SCOLUMBANTON FK = *And AMOS_FK =

* & Me.AMOS_PK Value & *a * & *And Level = *s & Mol. ChosenLevel Value &

* & Me.AMOS_PK Value & *a * & *And AMOS_FK =

* & Me.AMOS_PK Value & *a *a *And Level = *s & Mol. ChosenLevel Value &

* & Me.AMOS_PK Value & *a *a *And Level = *s & Mol. ChosenLevel Value &

* & Mol. AND SELECT [PropertyName_PK] FROM LOG_SCH_PROP WHERE

* & Me.AMOS_PK Value & *a *a *And AMOS_FK =

* & Me.AMOS_PK Value & *a *a *and AMOS_FK =

* & Me.AMOS_PK Value & *a *a *and AMOS_FK =

* & Me.AMOS_PK Value & *a *a *and AMOS_FK =

* & Me.AMOS_PK Value & *a *a *and AMOS_FK =

* *And AMOS_PK Value & *a *a *and AMOS_FK =

* *And Mol. Selected Property Mol. Selected Property Value &

* *And AMOS_PK Value & *a *a *and AMOS_PK =

* *A Mol. Selected Property Mol. Selected
                                                                                      54 Me.lati.evel0.RowSource = strSQL
55
56 End Sub
                                                                                   57
58 Private Sub-cmbCourseNamberFind_AfterUpdate()
59
50 Dim R As Recordset
61
50 Set R a Ma Resolutione
62
63 R FindFirst TSCourseName
64
65 R FindFirst TSCourseName
65
                                                                                                                   End Sub
3233
3234
3235
3236
                                                                                                                   Dim R.As Recordset
Set R.a. Ma. RecordsetClone
R.Findfirst ("SCourseNumber_PK] = " & Chy(34) &
[cmbCourseNumberFind] & Chy(34)
Ma.Boolemate. * R.Boolemat
Mel[cmbCourseNumberFind] = MM
S.CourseNumberFind] = MM
S.CourseNumberFind] = MM
S.CourseNumberFind] = MM
S.CourseNumberFind] = MM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      158 Me.lstLevel0.RowSource = strSQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         159
160 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Form firmScrubMerine
Code
1 Attribute VB, Nerne = "Form_firmScrubMerine"
2 Attribute VB, Predestree = True
3 Attribute VB, Predestreed = True
4 Attribute VB, Exposed = Fabse
5 Option Compare batteliase
                                                                                            59 Private Sub Form Current()
                                                                                                                                Dim strSQL As String
                                                                                                                                         ' Update the potential property list
strSQL = "SELECT DISTINCTROW [gryUnionAliProperty].{FPropertyName_PK]
```

```
49 Dim strSQL As String
50
                                                     6 Option Explicit
50
51 stSQL = "SELECT DISTINCTROW MARINE SSN, PK, MARINE SO, MARINE GWIDDON FROM MARINE LEFT JOIN ASSIGNMENT ON MARINE SSN, PK = ASSIGNMENT SSN, FK WHERE (((ASSIGNMENTSSN, PK) is NLII)):"
52 MILLENSSN FOWGOUGE = 8TSQL
                                                       8 Privata Sub Close_Click()
9 On Error GoTo Err_Close_Click
                                                           10
11 Dim stDocName As String
12 Dim stLinkCriteria As String
13
14 **Close current form
                                                     14 'Close current's
5 DoCmd.Close
16 'DoCmd.Close
16 'Dochme.Close
18 sDochme.e'r
19 DoCmd.Openfor
20
15 Lt.Cose_Clck:
22 Exit Sub
23 Err.Close_Clck:
24 Err.Close_Clck:
25 MagBox Err.Dese_Clc
26 MagBox Err.Dese_Clc
27
28 End Sub
27
                                                                                * Close current form
DoCmd.Close
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *Open specified form stDocName = "IrmPreprocessing&ExecutionSwitchboard" DoCmd.OpenForm stDocName..., stLinkCriteria
                                                                       Err_Close_Click:
MsgBox Err.Description
Resume Exit_Close_Click
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69
70
70
71
DoCmd DoMenutiern acFo
72
DoCmd DoMenutiern acFo
73
74
Ext Delete, Click
Ext Sub
75
F7
67
77
87
MegBox Err Description
79
Resume Ext Delete_Click
90
                                                                          Private Sub cmbPelFind_AfterUpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DoCmd.DoMenultern acFormBer, acEditMenu, 8, , acMenuVer70
DoCmd.DoMenultern acFormBer, acEditMenu, 6, , acMenuVer70
                                                                            Dim R As Recordaet
Ser R = Ne RecordaetClone
R FindFirst (PEE) = * & Chr (34) & Mei[cmbPelFind] & Chr (34)
Me Bookmark = R Bookmark
Mei[cmbPelFind] = Nul
Mei[cmbPelFind] = Nul
                                                                          End Sub
                                                   41 Private Sub cmbSSNFInd_AfterUpdate()
42 Ibir R As PaccidateCone
45 R FindFirst TSSN [PR] = "& Chr(34) & Met[cmbSSNFind] & Chr(34)
46 Ma Bootenste x Bootenst
47 Met[cmbSSNFind] = Nat
48 Meta Coses SetFocus
49
50 End Sub
51 Private Sub Delete _Clock;
53 On Error Goto Err_Delete_Clock
54
55 DoCmd DoMenstlern acFormBer, acEditMenu, 8 , acMenuVer70
56 End Sub
                                                       41 Private Sub cmbSSNFind_AfterUpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           83 Private Sub Close_Click()
84 On Error GoTo Err_Close_Click
85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               57 DOCUMENTAL MARKET SET OF SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         103 End Sub
                                                     67
67 Private Sub Form_Oursett)
69 Dim stSCL As String
71
71 Update stop PEF List
72
73 StSCL in "SELECT DISTINCTROW [MARINS] [PEFFROM MARINS LEFT JOIN PEF
COL MARCH [PEF] IN [PEF] [PEF] PROPER [PEF] [PEF_PR] Is NUSCODER BY
73
74
75 End Sub
                                      Form: frmSpecialAssignment
Code
                                                                       ode
Attribute VB, Nerne = "Form_frmSpecielAssignment"
Attribute VB, Creatrolle = True
Attribute VB, Predicelredfil = True
Attribute VB_Exposed = False
Option Company Delabose
Option Explicit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           123 Private Sub Form_Open(Cencel As Integer)
124
125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             126 DoCmd.GoToRecord acDetaForm, "IrmSpecialAssignment", acNewRec
127
128
                                                     7
8 Private Sub cmbClessNumber_AfterUpdete()
9
10 Dim sit Convert As Siring
11
Me.tdReportDate = Me.cmbClessNumber.C
13 Me.tdMcC = Me.cmbClessNumber.Column
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             129 End Sub
                                                                          Me.btReportDate = Me.cmbClassNumber.Column(2)
Me.btMCC = Me.cmbClassNumber.Column(4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Form: trmSpecialAssignmentOfUnassignedMerine
Code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ode
Altibule VB, Neme a "Form, firmSpecielAssignmentOfUnassignedMe
Altibule VB, Creatable = True
Altibule VB, Predictoredid = True
Altibule VB, Exposed = False
Option Compare Database
Option Compare Database
                                                   *Convert the fiscal year to a two digit number for RD3 File
st Convert = CSt (Ms.cmbCleashkumber, Cokumn(3))
st*Convert = Right(st Convert, 2)
Ma.tdf? x Clrif(st Convert)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Private Sub cmbClassNamber_AfterUpc

Dim strComent As String

Dim strComent As String

Dim strComent As String

Dim strComent As Bering

Me toffsportClass - MaccombclassNamber_ClassNam

Me toffsportClass - MaccombclassNamber_ClassNam

StrComent Te floating year to a two digit at Comment - Right(MaccombclassNam)

at Comment - Right(MaccombclassNam)

As Comment - Right(MaccombclassNam)

Me toffsor - Clinite Comment ()

Me toffs
                                                   22 End Sub
23
24 Private Sub cmbClessNumber_Enter()
25
26 Dim sit SQL As String
27
28 'This query finds the class numbers
                                                   Commanded Assistance Commanded Assistance Commanded Assistance Commanded Assistance Commenting dates associated with the chosen school Commenting dates associated with the chosen school Commanded 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ms.bt/ReportDate = Me,cmbClassNumber.Column(2)
Me.bt/MCC = Ma,cmbClassNumber.Column(4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'Convert the fiscal year to a two digit number for RD3 File
st Convert = CSY(Ms.cmbClassk\u00e4nrber.Column(3))
st Convert = Rght\u00e4st Convert, 2)
Me.bdFY = Cln(strConvert)
                                                     30 Me.cmbC
31 32 End Sub
33 34 Private Sub
35 Me.bdAM
37 38 End Sub
39 40 Private Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Me.btAMOS = MelcmbCourseNumber Column(1)
                                                                     Private Sub cmbCourseNumber_AfterUpdate()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *Updates the current form and subform
Me.Requery
Me.Repaint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ' Moves the record back to the current SSN
Set R = Me.RecordsetCione
R.FindFret TSSN_FK) = " & Chr(34) & strSSN & Chr(34)
Me.Bookmark = R.Bookmark
                                                         40 Private Sub cmbSSN_AfterUpdate()
                                                       41
42 Me.txtSOI
43 Me.txtGre
44
45 End Sub
                                                                          Me.bdSOI = Me(cmbSSN.Column(1)
Me.bdGradData = Me(cmbSSN.Column(2)
                                                       46
47 Privete Sub cmbSSN_Enter()
48
```

```
44 'This query finds the class numbers, report delas and class conventing dates associated with the chosen school 45 stoCit. - SELECTENAL EXTRACT.ClassNumber_PK, BNA_EXTRACT.ClassComCate, BNA_EXTRACT.ReportDelas, BNA_EXTRACT.ReportDelas, BNA_EXTRACT.Compart.PK, BNA_EXTRACT.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Compart.Comp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'Close the current form
DoCrnd.Close
'Open specified form
stDocName - "trmAnalyza-Result"
DoCrnd.OpenForm stDocName, , , stLinkOnteria
22
23 Err_Close_Click
24 MagBox Err.Description
25 Pesume Ext_Close_Click
26
27 End Sub
                                                      48 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Private Sub cmbCourseNumber_AfterUpdate()
                                         30 primetal SUB-51
51
52 Dim strSS 1
54
55 atrSSN = 55
56 ** Keep tra 55
58 atrSSN = 59
60 Me. traNK
61
52 ** Updates
63 Me. Reque
64 Me. Reque
65 ** Moves th
67 Set R = M.
68 R.Findfris
69 Me. Booker
71 End Sub
71 End Sub
                                                                    Dim strSSN As String
Dim R As Recordset
                                                                        strSSN = Ma.cmbSSN
                                                                             ' Keep track of the current SSN
strSSN = Me.cmbSSN
                                                                        Me.txAMOS = MelcmbCourseNumber.Column(1)
                                                                      * Updates the current form and subform
Me. Requery
Me. Repaint
                                                                    "Moves the record back to the current SSN
Set R = Ms.RecordsetClone
R.FindFirst "[SSN_FK] = " & Chr(34) & strSSN & Chr(34)
Ms.Bookmark = R.Bookmark
                                               72
73
Private Sub cmbSSN_AfterUpdate()
74
75
Me. bdSOI = MelcmbSSN.Cokumn(
76
Me. bdSradDate = MelcmbSSN.Co
                                                                    Me.btSOI = MelombSSN.Cokumn(1)
Me.btGradDate = MelombSSN.Cokumn(2)
                                             77
78 End Sub
79
80 Private Sub cmbSSN_Enter()
81
82 Dim strSQL As String
83
                                             83
84 etGQL = 'SELECT DISTINCTROW MARINE SSN_PK, MARINE.SO,
MARINE.GradDate FROM MARINE LEFT JOIN ASSIGNMENT ON MARINE.SSN_PK =
ASSIGNMENT.SSN_FK WHERE ((ASSIGNMENT.SSN_PK) to Null);
85 Ma.cmbSSN.RmSource = atSQL
86 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DoCmd.OpenForm stDocNsme
                                                             End Sub
                                             87 End Sub
89 Private Sub crabSSNFind_AfterUpdate()
90
91 Dim R As Recordset
92 Set R - Me. RecordsetCone
93 R FrindFirst (SSN, FR) = * & Chrt(34) &
94 Me. Bobornet* - R Bobornet*
95 Me. Choes-SeFocus
96 End Sub
                                                                 Dim R As Recordset
Set R = Ne RecordsetCone
RFIndfirst (SSN-FR) = "& Chr(34) & Mel(cmbSSNFind] & Chr(34)
MB Bookmark = R Bookmark
Mel(cmbSSNFind) = Nati
Mel(cmbSSNFind) = Nati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Form: sub/rmFundamentalProperty
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Altibute VB_Neme = "Form_subfrmFunder
Altibute VB_Creabble = True
Altibute VB_Predocteredid = True
Altibute VB_Predocteredid = True
Altibute VB_Exposed = Felse
Option Compare Debbess
Option Explicit
Private Sub ormbValue_FK_AfterUpdete()
                                                                    Private Sub Delete_Click()
On Error GoTo Err_Delete_Click
                                                102
103
104 DoCmd.DoMenultern acFormBar, acEditMenu, 8, , acMenuVer70
105 DoCmd.DoMenultern acFormBar, acEditMenu, 6, , acMenuVer70
106
107 EM, Delete_Clact
108 Esit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Forms/frmFundamentalProperty/[FPropertyName_PK].SetFocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13 Private Sub cmbValue_FK_BeforeUpdate(Cancel As I 14 On Error GoTo Err_cmbVelue_FK_BeforeUpdate 16 On Error GoTo Err_cmbVelue_FK_BeforeUpdate 16 Dirn do As Deabbase 18 Dirn sed As Recordset 19 Dirn convert As Varient 22 Paces what is n is on an expressible to Access (e.g. Cornert = "a. FormatfrmFundamentalPropsity subtrmFundamentalPropsity Sed As Cornert 24 Strong Sed As Cornert 25 Sed As Cornert 25 Sed As Cornert 25 Sed As Cornert 27 Sed As Cornert 28 Sed 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13 Private Sub cmbValue_FK_BeforeUpdate(Cancel As Integer)
                                                108 Ext Sub
109
110 Err_Delete_Cick
111 MagBox Err.Description
112 Resume Ext_Delete_Cick
113
114 End Sub
115
                                                115
116 Private Sub Close_Click()
117 On Error GoTo Err_Close_Click
118
119 'Close current form
120 DoCmd.Close
121
122 Exit_Close_Click
123 Exit Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'Places value in a form agreeable to Access (e.g. 'HI' or '10')

Convert = " & 
mFundamentalProperty!subtrmFundamentalProperty!cmbValue_FK & ""
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'Opens the table PROPERTY_VALUE stSQL = "PROPERTY_VALUE" Set db = CurrentDb() Set rec = db.OpenFlecondset(stSQL, dbOpenSnapshot)
                                             122 EST SUD
125 EST SUD
126 EFT, Close, Click
127 Est SUD
127 Est SUD
128 Meglor SET Description
129 Feature Est_Close_Click
129
129 End Sub
130
131 Proxiles Sub Form_Current()
132
133 MelcmbCourseNamber_Enabled = True
135 MelcmbCourseNamber_Enabled = True
135 MelcmbCourseNamber_Enabled = True
136
137
138 End Sub
140
141 Private Sub Form_Copen(Cencel As Integer)
144 Private Sub Form_Copen(Cencel As Integer)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * Searches for the value entered by the user in the rec.FindFirst "Value_PK = " & Convert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ' If the value is not in the PROPERTY_VALUE table, it is added. If rec.NoMatch = True Then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             * Disables the action query confirmation message
Application.SetOption *Confirm Action Queries*, False
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *Enters the value into the PROPERTY_VALUE table
DoCmd.OpenQuery *qryUpdeteProperty_Value*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *Updates the drop down list for the combobox
strSOL = "SELECT DISTINCT" &
rmstfrmFundementaProperty!MurineField & " FROM MARINE;"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 strSCL = "SELECT DISTINGT" & FROM MARI 44

45 strSCL = SELECT DISTINGT & FROM MARI 44

56 strSCL = SELECT DISTINGT & FROM MARI 45

57 strSCL = SELECT Query confirmation massage 47

48 polication. SelCiption "Confirm Action Queries", 18

50 rec. Close 51

51 strScL = SELECT Query Confirm Action Queries", 18

52 Ext. cmb Value _FK, Before Update: 18

53 Ext. Select Queries (19) Select Queries (19) Application. SelCiption Confirm Action Queries", True 19

54 Pessure Ext. cmb Value _FK, Before Update 19

55 Processors. Select Queries (19) Pessure Ext. cmb Value _FK, Before Update 19

56 Ext. Comb Value _FK, Before Update 19

57 Application. Select Queries (19) Pessure Ext. cmb Value _FK, Before Update 19

58 Ext. Comb Value _FK, Before Update 19

59 Ext. Comb Value _FK, Before Update 19

50 End Sub
                                                142
143
144
DoCmd,GoToRecord acDelaForm,
frmSpecialAssignmentOrUnassignedMarine, acNewRec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *Enables the action query confirmation message
Application.SetOption *Confirm Action Queries*, True
End If
                                                    147 End Sub
                                                             ode
Attibute VB_Neme = "Form_Imm\bassignedMerines"
Attribute VB_Creatable = True
Attribute VB_Creatable = True
Attribute VB_Exposed = True
Attribute VB_Exposed = Felse
Option Compers Detablese
Option Explicit
                                                8 Private Sub Close_Click()
9 On Error GoTo Err_Close_Click
10
11 Dim stDocNeme As String
12 Dim stLinkCriteria As String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Form: subtrmFundamentalPropertyList
Code
1 Attribute VB_Neme = "Form_subtrmFundamentalPropertyList"
```

```
27 stinput = " & SSN & "
28 sthfor/stacOL = "SELECT" & sthfor/Field & "AS (Value) FROM MARINE
WHERE SSN, PK " & stinput
29 Set rec2 = 61.0pen/secorbe/(sthfor/salveSQL_dbOpenSnepshot)
30 whitefalves = rec2Value
                                                                                                            Attribute VB_Creetable = True
Attribute VB_PredectaredId = True
Attribute VB_Exposed = False
Option Compare Database
Option Explicit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Private Sub cmbValue_FK_BeforeU
Cn Error GoTo Err_cmbValue_FI
Dim Char As Detables
11 Dim Charles
12 Dim rec As Recordes
13 Dim rec As Recordes
14 Dim rec As Recordes
15 Dim rec As Recordes
16 Dim ESTOL As String
16 Company
17 Dim Convert As Vaniant
18 Company
18 Company
19 Company
10 Set do = CurrentDid)
20 Set do = CurrentDid)
21 Set do = CurrentDid)
22 Set do = CurrentDid)
23 Set do = CurrentDid)
24 Set do = CurrentDid)
25 Set do = CurrentDid
26 Set do = CurrentDid
27 mc.FindCirst Value_FK = 8
28 If rec.NolAstch = True Then
29 DoCmd OpenCheery 'grybp'
30 DoCmd OpenCheery 'grybp'
31 DoCmd OpenCheery 'grybp'
32 Set Company
33 DoCmd OpenCheery 'grybp'
34 setSC = 'SELECT DISTINK
FormetirmErundamentalProparty/Marines
36 Mc.mctbValue_FK.PowSourt
37 Enables the action query of Application.SetCption 'Configured'
40 Closes acForm, 'subfirm
41 DoCmd Closes acForm, 'subfirm
42 Company
43 DoCmd Closes acForm, 'subfirm
44 DoCmd Closes acForm, 'subfirm
45 Ext.cmbValue_FK_BeforeUpdate:
46 Ext.cmbValue_FK_BeforeUpdate:
47 Ext.cmbValue_FK_BeforeUpdate:
48 Ext.cmbValue_FK_BeforeUpdate:
49 Set Grub Set Company
40 Set Company
41 Set Company
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41 Set Compan
                                                                                                            Private Sub cmbValue_FK_BeforeUpdate(Cancel As Integer)
On Error GoTo Err_cmbValue_FK_BeforeUpdate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      strundValusCQL = "SELECT Value_FK FROM FUND_PROP_VAL WHERE 
partyName_FK = "& FundPropName 
Set rec3 = 6) (openRecordsgtsfrundValueSQL_dbOpenSnapahot) 
verFundValue = rec3!Value_FK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *Convert verifund/value and verifuer/value to a numeric, if possible If InNumeric(verifund/value) And InNumeric(verifund/value) Then verifund/value - Cirt(verifund/value) verifund/value - Cirt(verifund/value) verifund/value - CSt(verifund/value) verifund/value - CSt(verifund/value) verifund/value - CSt(verifund/value) Verifund/value - CSt(verifund/value) End If
                                                                                                                                                   'Opens the subfrmFundamentalProperty so the following code will DoCmd.OpenForm "subfrmFundamentalProperty", , , , , acHidden
                                                                                                                                                   'Piscas value in a form agreeable to Access (e.g. 'HT or '10')
Coment = " & Formsi[subtmrFundermentsiProperty]cmbVelue_FK &
'Opens the table PROPERTY_VALUE
stSQL = 'PROPERTY_VALUE'
  3920
3921
3922
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3929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 66 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 78 88 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Select Case str-fundOperator
Case "="
If verMarValue = verFundValue Then
FundPropTest = True
End If
                                                                                                                                                   Set db = Current(Db()
Set rec = db.OpenRecordset(strSQL, dbOpenSnapshot)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    End If
Case 'not ='
If warMarValue In varFundValue Then
FundPropTest = True
End If
Case '<'
                                                                                                                                                 rec.FindFirst "Value_PK = " & Convert
If rec.NoMatch = True Then
Disables the action query confirmation message
Application.SetOption "Confirm Action Queries", False
3930
3931
3932
3933
3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DoCmd.OpenQuery "qryUpdateProperty_Value"
strSQL = "SELECT DISTINOT" &
FundamentsIProperty!MarineField & "FROM MARINE:"
Me.cmbValue_FK.RowSource = strSQL
                                                                                                                                              *Enables the action query confirmation message
Application, SetOption *Confirm Action Queries*, True
End If
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Case *c=" !! varMarValue c= varFundValue Then FundPropTest = True End !!"
                                                                                                                                              'Closes the subfrmFundamentalProperty without saving changes to DoCmd.Close acForm, "subfrmFundamentalProperty"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  End if 
Jase 5-a

If surfiver/alse >= verFundValue Then 
FundPropTest = True
End II

Do Unit not ECF
verFundValue = rec3!Value_FK

If Ishameric(verFundValue)_And ishameric(verMerValue)
verFundValue = Cint(verFundValue)
verFundValue = Cint(verFundValue)
verFundValue = Cint(verMerValue)
                                                                                                         Err_cmbValue_FK_BeforeUpdate:
MegBox Err_Deacription
Application_SelOption "Confirm Action Queries", True
Resume Ext_cmbValue_FK_BeforeUpdate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        uan/fert/value = Cint/ver/fert/value)
Else
verFund/value = CStr/verFund/value)
verMer/value = CStr/verFund/value)
End III
II verMer/value = verFund/value Then
FundFropTest = True
End III
End
                                                                 56 End Sub
56 End Sub
56 Private Sub Value FK, BeforeUpdate (Cancel As Integer)
58 On Error Go To Err, Value FK, BeforeUpdate
59 Dim Corner As Catalase
60 Dim Corner As Variant
61 Pincos value in a form expeeable to Access (e.g. HT
65 Orner 1 — 8 FORDERITY, VALUE
66 Sub Subsection of the Corner As Variant
67 Open 5e bable PROPERITY, VALUE
68 Subsection of the Corner Subsection of the Association of the Corner Subsection of the Corner Subsecti
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3985
                                                                                                                                              Places value in a form agreeable to Access (e.g. 'HT or '10')
Connert = " &
" &
" ** ***
Connert = " &
" **

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           89
90 End Function
91 Public Function LogOrTest[Input) As Booleen, Input2 As Booleen) As
93 If Input O Input2 Then
94 LogOrTest = True
                                                                                                                                              no. FindFirst "Value, PK = "& Cornest
"This If Then statement checks to see if the entered value is in
PROPERTY_VALUE beat. If not, it is added to the table.
If not. Nothletch = Time Then
"Disables the action query confirmation massage
Application. SacPpion "Confirm Action Queries", Felse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           95 Blee: LogOrText = False
95 End II = 1
96 End Function
99 End Function LogAndText(Input) As Boolean, Input2 As Boolean) As
                                                                                                                                                               DoCmd.OpenQuery *qryUpdateProperty_ValueList*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100
101 If input1 And input2 Then
102 LogAndTest = True
103 Else; LogAndTest = False
104 End If
                                                                                                                                              * Enables the action query confirmation message
Application.SetOption *Confirm Action Queries*, True
End !!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100 End I:
101 End I:
102 End I:
103 End Function
107 Pable Function LogPropNatrie As String, SSN As String) As
108 Dim Interest 
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4012

59 Ext Sub
90
91 Err_Value_FK_BeforeUpdate:
92 Map@ox Err_Description
93 Application_SetOption "Confirm Action Queries", True
94 Resume Exit_Value_FK_BeforeUpdate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gat the logical equation from the LOGICAL_PROPERTY table stringer = "8 LogPropleme & "stringer to the stringer to the stringer
                                                        Module: modFitnessDetermination
                                                                                                   ode
Attribute VB_Neme = "modFitnessDetermination"
Option Compare Database
Option Explicit
                                                                                                         Dim IngStart, IngEnd As Long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *Parse the string into an erray
*declare the temporary string as an array
ReDim strWorkingEqn(0) As String
                                                                                  8 Public Function FundPropTest(FundPropName As String, SSN As String) As
                                                                                                         Dim rec As Recordset, rec2 As Recordset rec3 As Recordset 
Dim shfMerField As String, stFrundOperator As String, stSQL As 
Dim shfMerField As String, stFrundValueSQL As String, strinput As 
Dim werFundValue, verMerValue 
Dim dn: As Debabase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *Find the position of the first space intSpacePos = InStr(strLogicalEquation, * *)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Intoplearios = Intotratrogramisquation, ")

top unit no more spaces are found

inStrintums of if the space is not found

inStrintums of if the space is not found

but intoplearios = 0

redimension the army, adding another element

'Bound taks us how many selements there element are in the

FieDum that as how many selements there elements are in the
                                                                            10 FundPropNeme = "" & FundPropNeme & "" This expression properly formetas the argument FundPropNeme, by plecing a "in front of and behind the value found in FundPropNeme.

17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'set the new element to the characters from the beginning of the 
'sking up to the first space. Let's returns a number of 
'from the beginning of a string 
stWorking/Euro(Mound(stWorking/Euri)) = 
et'S(strLogical/Equation, intSpace/Pos - 1))
                                                                                                              Set db1 = CurrentDb()
                                                                                                              strSCL = "SELECT MatrinsField, Operator FROM FUNDAMENTAL_PROPERTY 
ERE PropertyName_PK = "8 FundPropNeme 
Set rec = db1.0penFlecordset(stSCL_db0penSnepshot) 
strMarField = nectMatrinsField:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ' now we've copied these characters into the name, they can be
                                                                                                                          strFundOperator = rec!Operator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              143 removed from the original string. Right$ returns a number of 144 characters from the end of the string. It is the rightmost N
```

		4290 258 Exit Function
4160 4161	145 'characters, therefore we subtract the position of the space 146 'the length of the string. This gives us the number of	4291 259 End If
4162 4163	characters remaining. 147 strLogicalEquation = LTrimS(FightS(strLogicalEquation,	4292 260 Case "(" 4293 261 j=k
4164	Len(strLogicalEquation) - intSpacePos))	4294 262 GoTo Line1 'Jumps back to For j = 1 to
4165 4166	148 149 ' find the next space	4295 (UBound(strWorkingEqn)loop 4296 263 Exit For Exits the For $k = (i + 1)$ to
4167	150 intSpacePos = InStr(strLogicalEquation, "")	4297 (UBound(strWorkingEqn)) loop 4298 264 End Select
4168 4169	151 Loop 152	4299 265 Next k
4170 4171	153 For j = 1 To (UBound(strWorldingEqn)) 154 If strWorldingEqn(i) = "C Then	4300 266 End II 4301 267 Next j
4172	155	4302 268
4173 4174	156 Line1: 157 For k = (j + 1) To (UBound(strWorkingEqn))	4303 269 End Function 4304 270
4175	158 Select Case strWorkingEqn(k)	4305 271 Public Sub Fitness() 4306 272 Dim strSQL As String, strClassNumber As String, strAMOS As String
4176 4177	159 Case ")" 160 For I = (j + 1) To (k - 1)	4307 273 Dim stringutt As String, stringut2 As String
4178	161 Select Case st WorkingEqn(f) 162 Case *Or*	4308 274 Dim i As Integer, j As Integer, k As Integer, I As Integer 4309 275 Dim infilormalFactor As Integer, int/Fit As Integer, int/int/t As
4179 4180	163 booOrOperator = True	4310 276 Dim infLevel1 As Integer, infLevel2 As Integer, infLevel3 As Integer
4181 4182	164 Case "And" 165 booAndOperator = True	4311 277 Dim inLovel4 As Integer, infLovel5 As Integer, infLovel6 As Integer 4312 278 Dim sngDesiredWeight As Single, angEpsilon As Single, angSumOfFit As
4183	166 Case "Not"	4313 279 Dim angCount As Single, angAvgFit As Single, angFitness As Single
4184 4185	167 booNotOperator = True 168 Case "True"	4314 280 Dim sngklandFifValue As Single 4315 281 Dim IngGradDete As Long
4186	169 If strWorldingEqn(j) = "(" Then	4316 282 Dim db1 As Database 4317 283 Dim recClass As Recordset, recMarine As Recordset, recMarClsFit As
4187 4188	170 If booNotOperator Then 171 strWorkingEqn(i) = "False"	4318 284 Dim recPEF As Recordset, recFDesired As Recordset, recLDesired As
4189 4190	172 booNotOperator = False 173 Else	4319 285 Dim recFMand As Recordset, recLMand As Recordset 4320 286 Dim booMandProp As Boolean, booPEF As Boolean, booMandatory As
4190	173 Esse 174 strWorkingEan(i) = "True"	4321 267 Dim ver RetVal As Varient
4192 4193	175 End II 176 Else "Executed after the first	4322 288 Dim fmCurrent As Form_fmClassQuolaPensityAndFit 4323 289
4194	bracketed property is tested and stored in the location of "("	4324 290 Set frmCurrent = Forms!frmClassQuotaPenaltyAndFit
4196 4196	177 If booNotOperator Then 178 strWorkingEqn(f) = "False"	4325 291 Set db1 = CurrentDb() 4326 292
4197	179 booNotOperator = False	4327 293 "Create TEMP_FTT table 4328 294 Application SelOption "Confirm Action Queries", False
4198 4199	180 End If 181 If booOrOperator Then	4329 295
4200	182 strWorkingEqn() =	4330 295 IngGradDate = frmCurrentfMCTGradDate 4331 297
4201 4202	LogCrTest(CBool(strWorkingEqn(j)), CBool(strWorkingEqn(j))) 183 booCrCperator = False	4332 298
4203	184 Elself booAndOperator Then	4333 299 'Create 2 TEMP_FIT tables from MAR_CLS_FIT table 4334 300 db1.Execute "SELECT SSN_FK, MarineIndex, ClassIndex_FK, Filness INTO
4204 4205	185 strWorkingEqn(i) = LogAndTest(CBool(strWorkingEqn(i)), CBool(strWorkingEqn(i)))	4335 TEMP_FTT FROM MAR_CLS_FTT;"
4206 4207	186 booAndOperator = False 187 End If	4336 301 db1.Execute "SELECT SSN_FK, MarineIndex, ClassIndex_FK, Fitness INTO 4337 TEMP_FIT1 FROM MAR_CLS_FIT;"
4208	189 End If	4338 302
4209 4210	189	4339 303 'Insert into the TEMP_FIT tables the applicable SSNs based on MCT 4340 graduation date
4211	191 If booNotOperator Then	4341 304 db1.Execute "INSERT INTO TEMP_FIT (SSN_FK)SELECT MARINE.SSN_PK FROM
4212 4213	192 strWorkingEqn(i) = "True" 193 booklotOperator = False	4342 grySSN WHERE GradDate = " & ing/gradDate & "" 4343 305 db1.Execute "INSERT INTO TEMP_FIT: (SSN_FK)SELECT MARINE.SSN_PK
4214	194 Else	4344 FPCM grySSN WHERE GradDate = " & ingGradDate & " 4345 306
4215 4216	195 strWorkingEqn() = "False" 196 End If	4346 307 Application.SetOption "Confirm Action Queries", True
4217 4218	197 Else "Executed after the first bracketed property is tested and stored in the location of "("	4347 308 4348 309 "Create a dynamet of the terror fit table
4219	198 If booNotOperator Then	4349 310 ersot - "SELECT" FROM TEMP FIT"
4220 4221	199 strWorkingEqn(f) = "True" 200 booNotOperator = False	4350 311 Set rec/MarClaFit = doi: Open/Becordset(shSCL, dbOpenDynaset) 4351 312 rec/MarClaFit.Movel.ast
4222	201 End II	4362 313
4223 4224	202 If booOrOperator Then 203 strWorkingEqn(i) =	4363 314 *Create the MerineIndex for the Temp_fit table 4354 315 If recMarClsFit.RecordCount > 0 Then
4225	LogOrTest(CBcci(strWorkingEgn(i)), CBcci(strWorkingEgn(i)))	4355 316 recMarClsFit MoveFirst
4226 4227	204 booOrOperator = False 206 Elself booAndOperator Then	4366 317 For i = 1 To recMarCtsFit RecordCount 4367 318 recMarCtsFit Edit
4228	206 strWorkingEqn(j) •	4358 319 rec.Mar/ClaFitMarineIndex = i 4359 320 rec.Mar/ClaFit Ubdate
4229 4230	LogAndTest(CBook(strWorkingEqn(i)), CBook(strWorkingEqn(i))) 207 booAndOperator = False	4360 321 recMarClaFit.MoveNext
4231 4232	208 End If 209 End If	. 4361 322 Neuti 4362 323 End II
4233	210 Case ")" "Do nothing	4963 324
4234 4236	211 Case Else 212 If strWorkingEqn(i) = *(" Then	4364 325 'Create a dynaset of the Class table 4365 326 strSCL = "SELECT SCourseNumber_FX, AMOS_FX FROM CLASS"
4236	213 If booNotOperator Then	4366 327 Set recClass = db1.OpenRecordset(strSCL, dbOpenDynaset)
4237 4238	214 strWorkingEqn(j) = Not (FundPropTest(strWorkingEqn(j), SSN))	4368 329 recClass.MoveLast
4239	215 booNotOperator = False	4369 330 recClass.MoveFirst 4370 331 End II
4240 4241	217 strWorlangEqn() =	4371 332
4242 4243	FundPropTest(strWorkingEgn(!), SSN) 218 End !!	4372 333 'Create a dynaset of the Marine table based on TEMP_FIT1 table 4373 334 strSQL = "SELECT" FROM MARINE , TEMP_FIT1 WHERE
4244	219 Else 'Executed after the first	4374 (((MARINE.SSN_PIO,=[TEMP_FIT1].[SSN_FK[));*
4245 4246	bracketed property is tested and stored in the location of "(" 220 If booklotCoerator Then	4375 335 Set recMarine = db1.OpenPecordset(strSQL, dbOpenDynaset) 4376 336
4247	221 strWorkingEqn(t) = Not	4377 337 If recMarine.EOF = False Then 4378 338 recMarine.Movel.ast
4248 4249	(FundPropTest(strWorkingEqn(t), SSN)) 222 booNotOperator = False	4379 339 recMarine.MoveFirst
4250 4251	223 Else 224 strWorkingEqn(t) =	4380 340 End If 4381 341
4252	FundPropTest(strWorkingEgn(I), SSN)	4382 342 Initialize variables
4253 4254	225 End If 226 If booOrOperator Then	4383 343 booMandProp = True 4384 344 intFit = 0
4255	227 strWorkingEqn(j) =	4385 345 booPEF = Faise
4256 4257	LogCrTest(CBool(stWorkingEqn(j)), CBool(stWorkingEqn(j))) 228 booCrOperator = False	4386 346 booMandatory = False 4387 347 intNormeFactor = 100
4258	229 Elself booAndOperator Then	4388 348 int_ovelt = 32 4389 349 int_ovel2 = 16
4259 4260	230 strWorkingEqn(i) = LogAndTest(CBool(strWorkingEqn(i)), CBool(strWorkingEqn(i)))	4390 350 iniLevel3 = 8
4261 4262	231 booAndOperator = False 232 End If	4391 351 inLovel4 = 4 4392 352 inLovel5 = 2
4263	233 . End If	4393 353 intLevel6 = 1
4264 4265	234 End Select 235 Next I	4394 354 angDesiredWeight = 4395 355 angMandRitValue = (1 - angDesiredWeight) * intNormalFactor
4266	236	4396 356 var PetVal = SysCrnd(acSysCrndiniMeter, "Status",
4267 4268	237 Must transform the working equation to account for the bracketed expression evaluation.	4397 357 sngEpsilon = 0.000001 4398 368
4269	238	4399 359 'Verify recClass has values
4270 4271	239 intNewUBound = UBound(strWorkingEqn) - (k - j) 240 If intNewUBound ⇔ 1 Then	4400 360 tif recClass; RecordCount > 0 Then 4401 361 strClass/flumber = "X"
4272	241 ReDim strTransformedEqn(1 To intNewLBound)	4402 362 strAMOS = "X" 4403 363
4273 4274	242 For m = 1 To j 243 strTransformedEqn(m) = strWorkingEqn(m)	4404 364 'Cycle through all the classes
4275 4276	244 Next m 245 For m = (k + 1) To UBound(str WorkingEqn)	4405 365 For i = 1 To rec Class. RecordCount 4406 366 Yeild control temporarily to Windows
4277	246 strTransformedEqn(m - k + j) =	4407 367 DoEvents
4278 4279	247 Next m 248 ReDim str WorkingEqn(1 To in New UBound)	4408 368 'Update status bar 4409 369 verRefVal = SysCmd(acSysCmdUpdateMeter, i)
4280	249 For m = 1 To intNewUBound	4410 370
4281 4282	250 strWorkingEqn(m) = strTransformedEqn(m) 251 Next m	4411 371 'Update the classindex_FK for the MarClsFit record 4412 372 If recMarClsFit RecordCount > 0 Then
4283	252 i= 1 'Set i back to a value of 1.	4413 373 recMarClsFit.MoveFirst
4284 4286	253 GoTo Line1 'Jumps back to For j = 1 to (UBound(strWorkingEqn)loop	4414 374 For j = 1 To recMarCtsFit RecordCount 4415 375 recMarCtsFit Edit
4286	254 Else 255 LogPropTest = strWorkingEqn(i)	4416 376 recMarClsFitCassIndex_FK = i 4417 377 recMarClsFit Update
4287 4288	256 Erase stWorkingEgn	4418 378 recMarClaFit MoveNext
4289	257 Erase strTransformedEqn	4419 379 Next j

```
recMarClaFit.MoveFirst
End

Check to see if next record is the same school as the last

If it is, appead it to the MAR_CLS_FIT bable

If it is, appead it to the MAR_CLS_FIT bable

If (recClassIfoconseNumber_Fix - strClassNumber) And

AMCS_FIX = strAMCS] Then

Application SecUpion Toorinim Action Quories*, False

do it. Execute "INSERT INTO MARQ_CLS_FIT_ESN_FIX,

low, ClassInder_FIX_Fixesss SIGEC_TISM_FIT_SIN_FIX,

to, ClassInder_FIX_Fixesss SIGEC_TISM_FIT_FIX.SN_FIX,

IMARTINETION.T. FIX.Fixess SIGEC_TISM_FIT_FIX.SN_FIX

IMARTINETION.T. FIX.Fixess SIGEC_TISM_FIT_FIX.SN_FIX

Application.SecUpion Toorinim Action Queries*, True

recClass.MoveMat

Else
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381 Ferd II |
382 Check to |
383 If it is, ap |
383 If it is, ap |
384 Check to |
385 If it is, ap |
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387 Applicat |
387 recClass |
387 recClass |
380 segSum |
391 recClass |
392 booPer |
393 Verify |
394 If recMe |
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recLMend MoveFirst
End If
If booMandProp = True Then
intFit = 1
End If
not If
End !!

*Reset booMandProp for next check
booMandProp = True

*Compare marine attributes with the desired
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            If intFit > 0 Then
'Compare with desired fundamental
If recFDesired.EOF = False Then
For I = 1 To recFDesired.RecordCount
If
                                                                                                                                                                                                                       issesumOfFit = 0
sngCount = 0
booPEF = False
Verify racMarine has values
If racMarine,RecordCount > 0 Then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      If 
ropertyName_FK, recMarine(SSN_PK) = True Then 
Select Case recFDesired(Level 
Case 1 
intFit = intFit +
                                                                                                                                                                                                                                             'Initalize veriables strinput = "" & recClass/SCourseNumber_FK & "" strinput = "" & recClass/AMOS_FK & "" intinput = 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      intrit = nin
Case 2
intrit = intrit +
Case 3
intrit = intrit +
                                                                                                                                                                                                                       'Find all PEF's associated with the current school state. "SELECT PEF_FK FROM SCH_PEF WHERE per_FK = "A striput" & "and AMOS, FK = "& striput" & "a" AMOS, FK = "A striput" & "a" AMOS, FK = "A striput" & "" tracPEF_EOF = Faisa Then re-PEF_MovaLast re-PEF_MovaErs
End II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Case 4
intFit = intFit +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      intFit = intFit +
Case 5
intFit = intFit +
Case 6
intFit = intFit +
End Select
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      End Select
End If
recFDeaired.MoveNext
Next
Next
recFDeaired.MoveFirst
End II
recLDeaired.GFF = Fabe Than
For I = 1 To recLDeaired.RecordCount
II
reftProcentAleman To
                                                                                                                                                                                                                                             Find mandatory fundam
                                                                                                                                                                                                                                       achool serSOL = "SELECT FProperty/Name_FK FROM FIND_SCH_PPOP self-under_FK = " & strinputz & " AND ANKOS_FK = " & strinputz & " Set recFMend = cb.1. OpenRecordset(srSOL_recFMend = cb.1. OpenRecordset(srSOL_recFMend MoveLast = cerFMend MoveLast = cerFMend MoveFirst End II |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rediffropertyName_FK, recMarine/SSN_PK) = True Then
Select Case recLDestred/Level
Case 1
indfit = indfit +
Case 2
indfit = indfit +
                                                                                          416
417
Find mandatory logical properties associated with
the current school
418
strSCL = "SELECT LPropertyName_FK_FROM LOG_SCH_PROP
WHERE SCOURSNAME, FK = "& strinput & "AND AMOS_FK = "& strinput & "AND Lovel = "& strinput & "& s
                                                                                                                                                                                                                                             Find mandatory logical properties associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               intFit = intFit +
Case 3
intFit = intFit +
Case 4
intFit = intFit +
Case 5
intFit = intFit +
Case 6
intFit = intFit +
End Select
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               End Select
End If
recLDesired.MoveNext
Next I
recLDesired.MoveFirst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               recLDesired.MoveHits:
End If 'If indit to 0 Then
End If 'If indit to 0 Then
End If 'If booPEF = True Then
recMarCsFt.Edit
'If the marine's PEF is not satisfied by the
then not meat
                                                                         If the mendatory properties to the Cohernies a value >= 1 is assigned. A score of cates the school had not cates from the school had not cates from the school had not yeary of he desired properties or the marine did not yeary of the desired properties.

Late, it is subtracted from these scores and cad with a small value called explain. The apsilon is used to prevent a not by zero problem.
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recMarClsFitFitness = intFit
recMarClsFitUpdate
recMarClsFitMoveNed
'Prevents counting the entries with zeros since
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     recharcher. Monable

Prevents counting the entiries with zeros since

Prevents counting the entires with zeros since

I mist so Than

The 11 subtracted from the infirit score

and replaced with a small epable

1 supcount = sngCount+ 1

2 supcount = sngCount+ 1

3 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     er
'Sume up all the fits and gets a count of how
```

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S96
S97 recMarCtsFttClose
S97 Prepare the AMPL rdml.dat data file
S98 Prepare the AMPL rdml.dat data file
S98 On Application SeCoption Confirm Action Oueries*, False
601 dbt.Execute **OELETE* FROM TEMP_FTT;
602 Specify the number of members
603 dbt.Execute **OELETE* FROM TEMP_FTT;
604 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN, MarineIndex) VALUES
605 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN, MarineIndex) VALUES
606 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN, VALUES (**)**
607 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
608 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
609 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
600 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
610 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
611 Specify the class demand
610 dbt.Execute **NESERT INTO TEMP_FTT (SSN_FN) VALUES (**)*
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610 dbt.Execute **NESERT INTO TEMP_FTT (SSN_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dell's Table, Err:
Select Clave Err. Number
This number course if the PERCENTAGE table does not exist.
Desa 3295
Resumm Delete Table, Est
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End Select
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Module: modimportExportData
Code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Code

1 Altribute VB_Name = "modimportExportData"

2 Option Compare Database

3 Option Explicit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 Public Sub ImportBNA()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 DoCrnd.TransferText acImportFixed, "BNAExtract", "gryBNAExtract", C:\ToBeRdmRhmData\BNA.bd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
9 End Sub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10
11 Public Sub ImportPD1()
                                                                                                331 ** Ferrore the created tables
322 dol. Execute ** DROP TABLE ** TEMP_FTT;*
333 dol. Execute ** DROP TABLE ** TEMP_FTT;*
333 dol. Execute ** DROP TABLE ** AMP_TTDMP;*
334 dol. Execute ** DROP TABLE ** AMP_TTDMP;*
335 ** dol. Execute ** DROP TABLE ** AMP_TTDMP;*
336 ** Ferrore the meter from the status bar
337 ** Ferrore the meter from the status bar
338 End Sub
339 End Sub
340
340 ** Executed ** Executed **
341
342 Public ** Sub Curcle, Pennally (set* DeathBound As Variant)
343 ** Den werbate
344 ** Den werbate
345 ** Den werbate
346 ** Den methal ** Recorded ** Temperature
347 ** Dim dol As Dalabase
348 ** Dim dol As Dalabase
349 ** Dim dol As Dalabase
340 ** O'made ** Index ** Properature
347 ** Dim dol As Dalabase
348 ** Den dol As Dalabase
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340 ** O'create new class quota file
351 ** Death Sub ** Del Ent ** FROM FERNIL ** Properature
352 ** Delette ** Properature
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13 DoCmd.TransferText acimportFixed, "RD1", "gryMarine", C:\ToBeRdm\Rdm\Batk\RD1.bt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C.1TG9/Rdm/Rdm/Data/RO1. Mt
15 End Sub
16 End Sub
17 Public Sub ImportToTarget_MOS() ('ActionQuery As String)
18 CommenDig), Execute "INSERT IMTO TARGET_MOS( CourseAumber_PK,
TargetionS_PK, MCC) SELECT DISTINCT BIAL_EXTRACT_COURSeAumber_PK,
BIAL_EXTRACT_largetionS_PK, BIAL_EXTRACT_LINCC FROM BIAL_EXTRACT_
21 End Sub
22 Public Sub Ampl_Result()
24 DoCmd_TransforTod acimportDellm, "Ampl_Result", "AMPL_RESULT_
C.1TG50=RemAmpl.Data/rdm.out, True

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     So DoCred Transfer Fost actinomical in Ampl. Pesult., "AMPL. RESULT. COTTOBARTHAMPOLISING AND INC. CONTOBARTHAMPOLISING AND IN
                                                                                                segou - "SELECT CLASS.", SCHOOL Peralty Factor FROM CLASS ON (SCHOOL More) in CLASS AMOS SPI) AND (SCHOOL MORE) in CLASS AMOS SPI) AND (SCHOOL MORE) in CLASS SCOURS AMOS SPI) AND (SCHOOL MORE) in CLASS SCOURS AMOS SPI) AND (SCHOOL AND SEGOURD AND (SCHOOL AND SEGOURD AND
                                                                                                                                                                       rec Monduset

If no. RecordCount > 0 Then
not MondFirst

For I = 1 To rec RecordCount
not.Edit
not.ClassIndex = I
Converts the fiscal year to a two digit number for PO3 file
stConvert = GigfrigetConvert, 2)
not.Clinical Figure (Convert, 2)
not.Clinical Figure (Convert, 2)
not.Clinical Figure (Convert)
not.Clinical Figure (Convert)
not.Clinical
End If

End If
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Application Seloption "Contirm Action Queries", True

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Connert the date into a number

will continue the date into a number

will continue Seloption Seloption
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4939 78 DOOM'R INSOL 'DELETE DISTINCTROW MARINE', ASSIGNMENT, FROM MARINE
4940 INNER JOIN ASSIGNMENT ON MARINE. SN. PK = ASSIGNMENT.SSN. PK where
4941 ASSIGNMENT ON MARINE. SSN. PK = ASSIGNMENT.SSN. PK where
4951 ASSIGNMENT ON MARINE. SSN. PK = ASSIGNMENT. SSN. PK where
4952 Where ((ASSIGNMENT ON MARINE. SSN. PK = ASSIGNMENT. SS
```

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